

CITY OF MANHATTAN BEACH CALIFORNIA



ADOPTED FY 2020-2021 THROUGH 2024-2025 CAPITAL IMPROVEMENT PLAN

Bruce Moe, City Manager
Stephanie Katsouleas, Director of Public Works

City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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June 25, 2020

Honorable Mayor and Members of the City Council:

It is my pleasure to submit the Capital Improvement Plan (CIP) for City Council consideration. The Plan covers a number of projects for funding consideration in Fiscal Years 2020-2021, as well as projects in outlying years to serve as a planning tool. A Reader's Guide is included in the Introduction section of this Plan. A CIP provides for multiyear systematic scheduling of local physical improvements based on sound planning, public demand for the improvements, and the City's ability to pay for the improvements. Effective CIP planning is essential if the community infrastructure is to be properly maintained for use by the community. The CIP was developed to achieve the following goals:

- Achieve regulatory compliance
- Replace or rehabilitate aging water and sewer infrastructure
- Rehabilitate existing public buildings
- Maintain and improve roadway pavement
- Promote the community's sustainable future
- Enhance public vitality, health and safety
- Improve traffic circulation
- Create a positive community legacy

The five-year plan includes 115 projects (carryover and new) estimated at \$147.8 million dollars. In its current state, the plan considers \$25,990,000 in new fiscal appropriations for FY2020-2021 and is included in the City's Operational Budget for appropriation. All listed projects have identified project funding; each funding source is explained as follows:

Streets, Sidewalks and ROW Funds

The City funds street improvement projects with the dollars it receives from various sources including State and County Gas Tax Funds. These funds are restricted and may only be used for street-related improvements. Beginning in 2009, the City began receiving Measure R Local Return funding. The funding is available, on a per capita basis, through a Los Angeles County measure passed by voters in 2008. Funds may be used for street and transit purposes.

This category includes street resurfacing, slurry seal applications, replacement of damaged curbs, gutters and sidewalks, intersection and turn movement improvements, capacity enhancements and lane widening, pedestrian safety projects and Americans with Disabilities Act (ADA) access improvements.

Capital Improvement Fund

Capital Improvement Funds are generated from General Funds and are distinguished from other funds as being more discretionary and not restricted to certain uses such as Water Funds or funds reserved in various dedicated fund types.

This category of projects addresses all of the projects that do not otherwise qualify for funding from the other special revenue sources. The CIP fund is generated from a combination of the transient occupancy tax (TOT), parking citations and parking meter revenues. It has also received General Fund support on occasion. CIP projects primarily include building and other facility improvements, parks facility upgrades, enclosures, studies and master plans, landscaping enhancements, signage, and other right-of-way and public property improvements.

Water Funds

Water Funds are used for repairs and improvements to the City's water infrastructure. Proposed water projects are identified in the Utility Master Plan. The plan indicates the investments required to assure the long-term dependability of the water systems.

This category of projects addresses the infrastructure needs that support operations and maintenance of the City's water distribution system and includes water main and valve replacements, pump station refurbishments, reservoir replacements, well pumping and treatment activities, meter upgrades and automation, and all required studies and master plans. All projects in this category are fully funded through the Water Enterprise Fund using revenues collected through fixed and variable water rates.

Stormwater Funds

Stormwater Funds are used for repairs and improvements to the City's storm drain system.

This category of projects addresses infrastructure needs for both storm water conveyance and national pollution discharge elimination system (NPDES) compliance requirements. Projects include storm drain repairs and upgrades, capacity enhancements, trash capture devices, storm water master plans and enhanced watershed management plan (EWMP) infrastructure needs (e.g., infiltration projects). The storm water fund is supported by storm water assessment fees and transfers from the general fund.

Wastewater Funds

Wastewater Funds are used for repairs and improvements to the City's wastewater infrastructure. Proposed sewer projects are identified through the Utility Master Plan. This plan indicates the investment required to assure the long-term dependability of the sewer systems.

This category of projects addresses the infrastructure needs that support operation and maintenance of the City's wastewater system, and includes sewer main replacements, lift station refurbishments, radio telemetry, and all required studies and master plans. Notably, several of projects listed are for lift station upgrades. Lift stations are the backbone of an otherwise gravity flow system, and their proper care is paramount to the safe and effective operation of the entire wastewater system. All projects in this category are fully funded through the Wastewater Enterprise Fund using revenues collected through sewer fees.

Parking Funds

Parking Funds are used for repairs and improvements to the City's parking lots and meters.

This category of projects addresses the maintenance, repair and rehabilitation of the City's public parking lots and surrounding landscaped areas, including Metlox, other downtown parking structures, the North Manhattan Beach parking lot and business district, and several beach parking lots owned by Los Angeles County. Funding for projects in this category come from the meter fees collected at city and county parking lots and curbside parking stalls.

State Pier and Parking Lots Projects

This category of projects addresses the maintenance, repair and rehabilitation of the State's public parking lots and Manhattan Beach Pier. Eligible projects include pier railing and lighting replacement/rehab, installation of safety devices and deck repairs. Funding for projects in this category come from the meter fees collected by visitors and patrons at the State parking lots adjacent to the pier.

Conclusion

I wish to thank the City staff in their efforts in putting together this comprehensive plan and the City Council for their continued leadership and direction in helping to create a more livable, beautiful and safe community for all Manhattan Beach residents.

Sincerely,

Bruce Moe
City Manager

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Capital Improvement Plan FY2021-2025
Acknowledgements

The FY2021-2025 Capital Improvement Plan was prepared by an interdepartmental team whose members included:

- Stephanie Katsouleas, Director of Public Works
- Steve Charelian, Director of Finance
- Prem Kumar, City Engineer
- Henry Mitzner, City Controller
- Bonnie Shrewsbury, GIS Analyst
- Anna Luke-Jones, Senior Management Analyst
- Libby Bretthauer, Senior Financial Analyst
- Marcelo Serrano, Management Analyst

The recommendations contained in this document represent our best analytical efforts and a shared organizational and community vision about Manhattan Beach's capital needs for the next five years.

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Capital Improvement Plan FY2021-2025

Reader's Guide

A Capital Improvement Plan (CIP) is very important for planning and managing a city's growth and development, as well as maintaining existing infrastructure. It implements some of the community's goals and objectives and encourages discussion of the City's long-range vision. There are many factors involved in developing a Capital Improvement Plan. In this section, answers to frequently asked questions are provided, such as:

- What is a five-year CIP?
- What is the purpose of a five-year CIP?
- How do I read a CIP?
- Who develops the CIP?
- Where does the money come from to pay for the CIP?
- What is the general philosophy behind the funding decisions?
- Will the CIP have any impact on the Operating Budget?
- Is there a policy behind a CIP?

What is a five-year Capital Improvement Plan?

A Capital Improvement Plan is a planning document developed by the City that lists the proposed and scheduled capital improvement projects (CIP) and studies planned for the next five fiscal years (July 1 – June 30). It is inclusive of the capital improvements, renovations and new installations required in order to maintain the City's buildings, parks and rights-of-way infrastructure. Many of the projects proposed in the 5-Year CIP are "public projects", which is defined under the State of California Public Contracting Code as:

- (a) A project for the erection, improvement, painting or repair of public building and works
- (b) Work in or about streams, bays, waterfronts, embankments or other work for protection against overflow
- (c) Street or sewer work except maintenance or repair
- (d) Furnishing supplies or materials for any such project, including maintenance or repair of streets or sewers.

The only exception to this rule is special studies. Special studies are included in the 5-Year CIP if they may result in future infrastructure projects. The first year's projects in a Capital Improvement Plan become the basis for that year's capital budget request.

A Capital Improvement Plan is a living document. In Manhattan Beach, the plan is part of the City's two year budget cycle. In year one, the city focuses on a full development of the 5-Year Plan. The next year the remaining 4 years are updated, but with a focus on necessary projects in the immediate fiscal year. It is also important to note that the City Council appropriates funds for first year projects only. As the community's goals change to reflect current issues and concerns, so will the direction of the CIP since it is intended to meet the service and infrastructure needs of the community.

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Capital Improvement Plan FY2021-2025

Reader's Guide

What is the purpose of a five-year Capital Improvement Plan?

The five-year Capital Improvement Plan is a framework for developing the City's current and future operating and capital needs. This systematic approach to programming operating and capital needs includes the following benefits:

Maximizes State and Federal Aid - Many State and Federal programs require early identification of community needs and incorporation of these needs into regional plans before the community can apply for project funding. A long-range capital improvement plan allows the community to program its needs in sufficient time to be included in regional plans. Also, it allows the community to coordinate future needs with various Federal and State Program criteria.

- **Establishes the level of capital expenditures the community can safely afford over the next five-years** – Multiple-year financial planning enriches the City Council's capital project financial decisions. Pre-determining expenditures and revenues allows the community to prioritize capital expenditures and new programs without creating adverse impacts to existing services in the community.
- **Provides greater opportunity to fund larger projects** - The long-range capital plan provides a mechanism for funding larger more expensive capital projects. This encourages a broad overview of needs and avoids a "piecemeal" approach to improving the community's infrastructure. By identifying projects early, the most economical means of financing can be selected in advance. This financial planning helps the community avoid commitments and debts that may limit the initiation of more important projects at a later date.
- **Assists in maintaining a balance between debt service and current expenditures** - Pre-determining the operating and capital expenditures provides an early indication of the City's need to obtain outside financing, and its ability to pay the debt service on these loans, within the limitation of annual revenues, and without impacting the operating budget.
- **Keeps the community informed of current and future projects** - The Capital Improvement Plan informs the public about the short and long-range fiscal and capital development goals for the community. It assists the citizens in understanding the constraints and limitations of capital improvements and community service financing.
- **Focuses attention on community goals, needs and capabilities** - The capital improvement process ensures that City objectives, future needs, and financial capabilities are incorporated into the planning of capital projects and services. The Capital Improvement Plan provides a mechanism for prioritizing new capital projects and programs based upon identifiable needs and available resources.
- **Encourages cooperation and coordination between City departments and other agencies** - Early identification of community needs provides ample time to plan and

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coordinate capital project construction with City departments and outside agencies.

- **Consideration of impact on the Operating Budget** - The Capital Improvement Plan process forces consideration of how projects, once completed, will affect the City's Operating Budget. Too often, a capital project is built with little or no consideration of its operational cost and the potential impact on the annual Operating Budget.

How Do I Read a Capital Improvement Plan?

A quick review of this document without some preparation can be frustrating to the reader who simply wants to learn and understand what the City is doing with their tax dollars. The following explanations assist with a few key sections:

- **5-Year Plan** – The 5-Year Plan is a reference list of all 128 projects, categorized by their funding source. It is important to understand that a single project can receive funds from several different sources. In other words, the same project could be listed several times but under different funding sources. This tool is used to assist with organizing the correct and feasible years for funding and executing a project. The project summary sheet numbers are referenced to the left of each project title for quick reference.
- **Summary Sheets** – The summary sheets provide a snapshot of a project with title, description (general scope), justification (why this project is needed), estimated total project cost, General Plan element goals (that Planning Commission found in conformance), carryover project number (if it's an active project with multiple year funding or project scope), original funding year and a location map (with a few projects exempted).

Who Develops the Capital Improvement Plan?

The Capital Improvement Plan is developed in cooperation with all City departments, the City Council, and the public. City departments and divisions identify and suggest project ideas to be considered in the Capital Improvement Plan. The Public Works Department takes lead on performing the initial project assessment and prepares the initial draft CIP for Council consideration. The public communicates project ideas year round through work orders, communication to Engineering staff about concerns and through the City's website (Engineering Division homepage) via the "Public Rights of Way Improvement Request Form." (PDF)

CIP Staff: The CIP Staff oversee the development and implementation of the CIP. Duties of the CIP Staff include assisting in the completion of each project idea, description and justification, ensuring there is appropriate funding for the desired proposed projects, assembling and preparing all documents and materials, coordinating with the Engineering Division to prepare CIP project cost estimates, coordinating the entire CIP process and making presentations to City Commissions and the public. The CIP Staff includes the following positions:

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Reader's Guide

- Director of Public Works
- Director of Finance
- City Engineer
- City Controller
- Senior Financial Analyst
- Finance Management Analyst
- Public Works Senior Management Analyst

City Commissions: The proposed Capital Improvement Plan is typically presented to the Parking and Public Improvements Commission (PPIC) to review the projects and provide comment.

The newly proposed projects which have not previously been reviewed by the Planning Commission, are reviewed by the Planning Commission for consistency with the City of Manhattan Beach General Plan in accordance with Government Code Section 65401.

If the Plan is taken to either of the Commissions, the comments are provided to the City Council as part of its next CIP staff report.

Manhattan Beach City Council: The City Council reviews, discusses and adopts the Capital Improvement Plan. Funding is appropriated for projects in the first year of the plan as part of the City's operating budget adoption.

Where does the money come from to pay for the CIP?

The cost of capital projects is allocated to several different funds depending upon the nature of the project. For example, capital projects that are associated with maintaining or upgrading the water system are paid for out of the city's Water Fund. The Water Fund generates revenue from water rate payers. It should be noted that projects which impact more than one department or program may have multiple funding sources. In this case, the total project cost will be shared among the various funding sources.

What is the general philosophy behind the Funding Decisions?

The City uses a "pay-as-you-go" philosophy in funding capital projects whenever possible. This means that if the funds are not available in current receipts combined with the fund balance to complete the project, the project is not recommended for completion. An exception to this policy may occur from time-to-time due to extraordinary infrastructure replacement needs that arise. The City Council may approve the issuance of revenue bonds to fund large scale infrastructure repairs or replacements if current revenues will not support the needed work.

Will the CIP have any impact on the Operating Budget?

Capital projects typically either increase or decrease operating expenses. Projects that replace or rehabilitate existing facilities will likely decrease maintenance and operating costs, such as the annual water line replacement and street resurfacing programs.

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Reader's Guide

Projects that build new facilities and/or enhance services may increase operating expenses to fund maintenance needs of those facilities. Finally, a new facility or program that is the result of a capital project may increase revenue by offering a new service to residents. In this circumstance, the City may establish new fees to recover operating costs related to the new service being provided.

Is there a policy behind a Capital Improvement Plan?

The five-year Capital Improvement Plan is based on a long-term vision of the City, as developed by the City Council, to maintain the reliability of the City's infrastructure and to meet the needs and desires of the community for City services.

During the development of the five-year Capital Improvement Plan, capital projects that affect public health and safety, and/or legal mandates are given the highest priority. Emphasis is placed on capital projects that maintain existing service levels or prevent damage to critical property or disruption of service to the community. Projects that would enhance existing services or improve efficiency beyond industry standards receive secondary priority.

In Conclusion

This long-range vision of the City's infrastructure needs is the result of a combined effort and input of the City Council, City staff and the public. These projects are intended to improve the quality of life for those who live, play and work in the City of Manhattan Beach.

City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Glossary of Key Terms

<u>Term</u>	<u>Definition/Explanation</u>
Capital Improvement Fund	<i>The Capital Improvement Fund</i> is used to account for capital projects not eligible for funding from other specific funding sources. Funding sources are derived from various sources such as grant funds or transfers from the General Fund.
Grind and Overlay	The process used for rehabilitating a decaying street. In this process, a thin layer of asphalt, usually 1"-1 ½", is ground off the top of the street. A layer of new asphalt is then applied to the surface. This process typically extends a street's life by 10 to 15 years.
Measure M Local Return	Measure M is a one-half cent (0.5%) sales tax approved by Los Angeles County voters in November, 2017 to meet the transportation needs of Los Angeles County. <u><i>Local Return</i></u> Measure R Local Return funds are provided to cities on a per capita basis. The City began receiving these funds in January 2010. The funds can be used for street maintenance, bicycle and pedestrian facilities and transit purposes.
Measure R Local Return	Measure R is a one-half cent (0.5%) sales tax approved by Los Angeles County voters in November, 2008 to meet the transportation needs of Los Angeles County.
Measure R South Bay Highway Program	<u><i>South Bay Highway Projects</i></u> A portion of Measure R is allocated to 17 regional project group categories. South Bay agencies will receive funding under the subcategory entitled "Interstate 405, I-110, I-105, and SR-91 Ramp and Interchange Improvements (South Bay)".
Measure W Local Return	Measure W is a parcel tax of 2.5 cents per square foot of impervious area approved by Los Angeles County voters in November, 2018 to capture, treat and recycle storm water in Los Angeles County.
Metropolitan Water District (MWD)	The Metropolitan Water District is responsible for supplying most all of Southern California's water needs through the California and Colorado River Aqueducts. After the water reaches Southern California, it is distributed to member agencies such as West Basin Municipal Water District. Manhattan Beach buys its water from West Basin.
Parking Fund	<i>The Parking Fund</i> is used to account for the general operations and maintenance of City parking lots and spaces. Revenues are generated from the use of these properties.
Prop A & C Funds (Transportation)	<i>The Proposition A and C Funds</i> are used to account for proceeds from the half-cent sales taxes generated by the approval of Propositions A and C by Los Angeles County voters. These funds, which are administered by the Los Angeles County Metropolitan Transportation Authority (MTA), are distributed based on population and must be used for transportation-related projects.

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Capital Improvement Plan FY2021-2025
Glossary of Key Terms

Prop A Funds (Recreation)	The recreation Proposition A Funds were voter approved bonds for open acquisition, park improvements, nature trails, and other recreational improvements. A small portion of the funds are dedicated to special purposes such as improving the water quality of the Santa Monica Bay through structural improvements to reduce urban run-off.
Slurry Seal	An asphaltic coating applied to streets (approximately ¼ inch thick) to seal the street surface and prolong the useful life of the pavement.
State Pier & Lot Fund	<i>The State Pier & Parking Lot Fund</i> is used to account for the operation and maintenance of the Manhattan Beach Pier, comfort station, and four adjacent parking lots. These properties are owned by the State, but controlled by the City through an operating agreement.
Stormwater	Stormwater is the run-off created as a result of rain. Typically, stormwater enters a storm drain which goes directly to the ocean without the benefit of any treatment.
Stormwater Fund	<i>The Stormwater Fund</i> is used to account for the maintenance of and improvements to, the City's storm drains. Revenues are derived from a storm drain assessment to property owners, which is based on size and use of the parcel, and collected through the property tax roles.
TDA Article III	Transportation Development Act. Administered by the MTA, TDA funds can be used for improvements to pedestrian and bicycle facilities.
Safetea-Lu	Federal transportation legislation entitled "Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users" (Safetea-Lu) that provides funding to agencies for improvements in roads and transportation systems.
Streets and Highways Fund	<i>The Streets and Highways Fund</i> is used to account for the City's share of state and county gasoline tax collection in accordance with the provisions of the State of California Streets and Highway Code. Revenues are disbursed by the State based on population and must be used towards the maintenance and repair of City streets that serve as State and County thoroughfares.
Wastewater	Also known as sewage, wastewater is the waste that runs down sinks, toilets, showers, and other indoor drains. Wastewater in Manhattan Beach flows to the Joint Wastewater Pollution Control Plant in Carson where it is treated and then released into the ocean.
Wastewater Fund	<i>The Wastewater Fund</i> is used to account for the maintenance of and improvements to, the City's sewer system. Revenues are derived from a user charge placed on the water bills.
Water Fund	<i>The Water Fund</i> is used to account for the operation of the City's water utility system. Revenues are generated from user fees, which are adjusted periodically to meet the costs of administration, operation, maintenance, and capital improvements to the system.



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SCHEDULE OF CAPITAL PROJECTS BY FUND

	Prior Year						TOTAL
	Appropriation ¹	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	Five-Year
CIP Project Funding Summary							
Street Lighting and Landscape Fund	35,000	35,000	35,000	35,000	35,000	35,000	210,000
Streets & Highways Fund	2,609,360	755,000	1,985,000	715,000	1,825,000	715,000	8,604,360
Prop C Fund	20,266,979	800,000	-	1,200,000	-	1,200,000	23,466,979
Measure R Fund	625,000	1,260,000	-	1,250,000	-	800,000	3,935,000
Measure M Fund	480,000	4,280,000	2,400,000	-	800,000	-	7,960,000
CIP Fund	7,534,256	650,000	1,400,000	800,000	800,000	800,000	11,984,256
Water Fund	30,141,668	15,100,000	3,750,000	4,965,000	4,075,000	3,000,000	61,031,668
Stormwater Fund	1,524,798	1,710,000	710,000	710,000	710,000	710,000	6,074,798
Wastewater Fund	10,408,132	1,400,000	1,100,000	4,175,609	1,500,000	2,500,000	21,083,741
Parking Fund	989,542	-	-	150,000	800,000	-	1,939,542
State Pier & Lot Fund	150,084	-	1,400,000	-	-	-	1,550,084
	\$74,764,819	\$25,990,000	\$12,780,000	\$14,000,609	\$10,545,000	\$9,760,000	\$147,840,428

¹ Prior Year Appropriation column includes estimated carryover funding that will be expended as multi-year projects progress. Reported carryover funds reflect the amount of fund balance previously committed to projects in prior year adopted budgets. In the Five Year Forecast, Opening Fund Balances include assumptions for Committed Capital Project expenditures and, where applicable, anticipated grant revenue.

Items highlighted in red represent modifications made from the previously adopted 5-year CIP.
 Items highlighted in blue shading represent grant funded projects.

SCHEDULE OF CAPITAL PROJECTS BY FUND

	Prior Year Appropriation ¹	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	TOTAL Five-Year
Street Lighting & Landscape Fund							
Annual Streetlight Replacement	35,000	35,000	35,000	\$35,000	\$35,000	\$35,000	\$210,000
Street Lighting & Landscape Total	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$210,000
Streets & Highways Fund							
Streets-Concrete Repairs							
Annual Curb, Gutter and Ramp Replacement	\$289,158	\$365,000	\$365,000	\$365,000	\$365,000	\$365,000	\$2,114,158
Village Field ADA Access Design (w/CIP Funding)	58,165	-	-	-	-	-	\$58,165
Streets-Concrete Repairs Total	\$347,323	\$365,000	\$365,000	\$365,000	\$365,000	\$365,000	\$2,172,323
Streets-Pavement Projects							
Biennial Slurry Seal Program			\$970,000		\$770,000	-	\$1,740,000
Annual Street Resurfacing Program	298,390	350,000	650,000	350,000	650,000	350,000	\$2,648,390
Street Resurfacing Project: Rosecrans from Village to Aviation	330,000	-	-	-	-	-	\$330,000
Triennial Pavement Management System Update	-	40,000	-	-	40,000	-	\$80,000
Streets-Pavement Projects Total	\$628,390	\$390,000	\$1,620,000	\$350,000	\$1,460,000	\$350,000	\$4,798,390
Streets-Capacity Improvements							
Aviation at Artesia, SB to WB Right-Turn Lane (SBHP Grant)	\$1,299,789	-	-	-	-	-	\$1,299,789
Sepulveda & 8th St Intersection Improvements (HSIP Grant)	333,858	-	-	-	-	-	\$333,858
Streets-Capacity Improvements Total	\$1,633,647	-	-	-	-	-	\$1,633,647
Streets & Highways Total	\$2,609,360	\$755,000	\$1,985,000	\$715,000	\$1,825,000	\$715,000	\$8,604,360
Prop C Fund							
Streets-Pavement Projects							
Annual Street Resurfacing Program	732,790	800,000	-	1,200,000	-	1,200,000	\$3,932,790
Streets-Pavement Projects Total	\$732,790	\$800,000	-	\$1,200,000	-	\$1,200,000	\$3,932,790
Streets-Capacity Improvements							
Dual LT Lanes on MBB at Sepulveda (SBHP Grant)	\$1,204,980	-	-	-	-	-	\$1,204,980
Sepulveda Bridge (SBHP Grant)	7,871,422	-	-	-	-	-	\$7,871,422
Sepulveda Bridge Widening (MTA Call Grant)	6,399,876	-	-	-	-	-	\$6,399,876
Sepulveda Bridge Widening Prop C Local	3,557,911	-	-	-	-	-	\$3,557,911
Sepulveda Intersection Improvements - Cedar/Marine	500,000	-	-	-	-	-	\$500,000
Streets-Capacity Improvements Total	\$19,534,189	-	-	-	-	-	\$19,534,189
Prop C Total	\$20,266,979	\$800,000	-	\$1,200,000	-	\$1,200,000	\$23,466,979
Measure R							
Streets-Pavement Projects							
Annual Street Resurfacing Program	-	\$400,000	-	\$800,000	-	\$800,000	\$2,000,000
Streets-Pavement Projects Total	-	\$400,000	-	\$800,000	-	\$800,000	\$2,000,000
Streets-Capacity Improvements							
Protected LT Lanes: MBB at Peck Ave	\$285,000	\$260,000	-	-	-	-	\$545,000
Streets-Capacity Improvements Total	\$285,000	\$260,000	-	-	-	-	\$545,000
Streets-Pedestrian Improvements							
Ocean Drive Walk Street Crossings		-	-	\$450,000	-	-	\$450,000
Rosecrans Bike Lane Improvements	\$240,000	-	-	-	-	-	\$240,000
Aviation (West-side) and 33rd Sidewalk (partial grant 5310)	100,000	600,000	-	-	-	-	\$700,000
Streets-Pedestrian Improvements Total	\$340,000	\$600,000	-	\$450,000	-	-	\$1,390,000
Measure R Total	\$625,000	\$1,260,000	-	\$1,250,000	-	\$800,000	\$3,935,000

Items highlighted in red represent modifications made from the previously adopted 5-Year CIP.
 Items highlighted in blue shading represent grant funded projects.

SCHEDULE OF CAPITAL PROJECTS BY FUND

	Prior Year Appropriation ¹	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	TOTAL Five-Year
Measure M							
Manhattan Beach Automated Traffic Sync (MBATS)		\$3,640,000	\$1,800,000	-	-	-	\$5,440,000
Rowell Avenue Sidewalk Connection (Curtis & 1st St.)	200,000	640,000	-	-	-	-	\$840,000
Annual Street Resurfacing Program	-	-	600,000	-	800,000	-	\$1,400,000
Traffic Signal Pole: 15th and Highland	280,000	-	-	-	-	-	\$280,000
Streets-Pedestrian Improvements Total	\$480,000	\$4,280,000	\$2,400,000	-	\$800,000	-	\$7,960,000
Measure M Total	\$480,000	\$4,280,000	\$2,400,000	-	\$800,000	-	\$7,960,000
CIP Fund							
Facilities Projects							
Facility Improvements	\$161,853	\$600,000	\$400,000	\$600,000	\$600,000	\$600,000	\$2,961,853
Citywide Security Cameras	\$430,000						\$430,000
City Hall HVAC Replacement/Repair	\$1,300,000						\$1,300,000
Roof Replacements - Marine/Live Oak/Rec Hall	\$354,020						\$354,020
Streetlight LED Retrofit	332,023	-	-	-	-	-	\$332,023
Fiber Master Plan	67,133						\$67,133
Mariposa Fitness Station	138,420	-	-	-	-	-	\$138,420
Ceramics Studio Upgrades	259,500	-	-	-	-	-	\$259,500
Fire Station 2 Design Development	442,762	-	-	-	-	-	\$442,762
Senior & Scout House	1,000,000						\$1,000,000
Replacement/Upgrade Fire Station 1 Diesel Exhaust Removal System	30,000	-	-	-	-	-	\$30,000
Begg Field Improvements			500,000				\$500,000
School District Project	250,000						\$250,000
Historic Document Repository	-		250,000				\$250,000
City Owned Refuse Enclosure Sewer Connections (annual)			100,000	100,000	100,000	100,000	\$400,000
Facilities Projects Total	\$4,765,711	\$600,000	\$1,250,000	\$700,000	\$700,000	\$700,000	\$8,715,711
Right-of-Way Projects							
Downtown Streetscape Improvements: Traffic Signal Pole Replaceme	\$842,650	-	-	-	-	-	\$842,650
Traffic Signal Battery Back-Up Installation	110,000	-	-	-	-	-	\$110,000
Traffic Signal Preemption Devices	158,282	-	-	-	-	-	\$158,282
Annual Non-Motorized Transport. Prog. (Bikelanes, Crosswalks)	107,715	50,000					\$157,715
Automatic License Plate Readers - Sepulveda Pole	149,898	-	-	-	-	-	\$149,898
Right-of-Way Projects Subtotal	1,368,545	50,000	-	-	-	-	1,418,545
Grants and Special Funds Projects							
Polliwog Playground Resurfacing & Equip. Replacement (Prop A/CIP)	1,000,000	-	-	-	-	-	\$1,000,000
Polliwog Band Stage (Public Art Trust Fund)	100,000	-	-	-	-	-	\$100,000
Village Field Access Ramp Construction (CDBG Funds)	300,000	-	-	-	-	-	\$300,000
Annual ADA Improvements Program (CDBG Funds)		-	100,000	100,000	100,000	100,000	\$400,000
Sepulveda/Oak Neighborhood Intrusion Study		-	50,000	-	-	-	\$50,000
Grants and Speial Funds Projects Total	\$1,400,000	-	\$150,000	\$100,000	\$100,000	\$100,000	\$1,850,000
CIP Fund Total	\$7,534,256	\$650,000	\$1,400,000	\$800,000	\$800,000	\$800,000	\$11,984,256

Items highlighted in red represent modifications made from the previously adopted 5-Year CIP. Items highlighted in blue shading represent grant funded projects.

SCHEDULE OF CAPITAL PROJECTS BY FUND

	Prior Year Appropriation ¹	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	TOTAL Five-Year
Water Fund							
Water Projects							
Annual Pipe Replacement Program	\$379,080	-	\$2,500,000	\$3,000,000	\$3,000,000	\$3,000,000	\$11,879,080
Water Meter Upgrade and Automation	5,321,040	-	-	-	-	-	\$5,321,040
Block 35 Ground Level Reservoir Replacement (Design Only)	-	-	-	1,200,000	-	-	\$1,200,000
Chloramination System at Wells 11 & 15	-	-	-	300,000	-	-	\$300,000
Larsson Street and 2nd Street Booster Station Improvement	648,941	-	1,000,000	-	-	-	\$1,648,941
Paint Block 35 Elevated Tank (interior and exterior)	841,428	800,000	-	-	-	-	\$1,641,428
Peck Ground Level Reservoir Replacement	22,751,179	14,000,000	-	-	-	-	\$36,751,179
Redrill & Equip Well 15	-	-	-	-	650,000	-	\$650,000
Utility Radio Telemetry	-	-	-	215,000	-	-	\$215,000
Well 11A Variable Frequency Drive Installation	-	-	-	-	125,000	-	\$125,000
Well 15 Electrical Panel Replacement and VFD Installation	-	-	-	-	300,000	-	\$300,000
Water Masterplan Update	-	300,000	-	-	-	-	\$300,000
Electronics Automation - SCADA, etc.	200,000	-	-	-	-	-	\$200,000
Generator Upgrades - Well 15 and Block 35	-	-	250,000	250,000	-	-	\$500,000
Water Projects Total	\$30,141,668	\$15,100,000	\$3,750,000	\$4,965,000	\$4,075,000	\$3,000,000	\$61,031,668
Water Total	\$30,141,668	\$15,100,000	\$3,750,000	\$4,965,000	\$4,075,000	\$3,000,000	\$61,031,668
Stormwater Fund							
Stormwater Projects							
Storm Drain Capital BMPs	-	\$710,000	\$210,000	\$210,000	\$210,000	\$210,000	\$1,550,000
Strand Infiltration Feasibility Study	\$200,000	-	-	-	-	-	\$200,000
Storm Drain Repairs	924,798	500,000	500,000	500,000	500,000	500,000	\$3,424,798
CCTV Storm Drain System	150,000	-	-	-	-	-	\$150,000
Stormwater Masterplan Update	250,000	-	-	-	-	-	\$250,000
Joint Watershed Infiltration Project	-	500,000	-	-	-	-	\$500,000
Stormwater Projects Total	\$1,524,798	\$1,710,000	\$710,000	\$710,000	\$710,000	\$710,000	\$6,074,798
Stormwater Total	\$1,524,798	\$1,710,000	\$710,000	\$710,000	\$710,000	\$710,000	\$6,074,798
Wastewater Fund							
Wastewater Projects							
Annual Rehabilitation of Gravity Sewer Mains	\$2,560,652	\$1,100,000	\$1,100,000	\$1,100,000	\$1,500,000	\$1,500,000	\$8,860,652
Poinsettia Sewage Lift Station and Force Main Replacement	3,297,480	-	-	-	-	-	\$3,297,480
Pacific Lift Station Upgrade	2,400,000	-	-	-	-	-	\$2,400,000
Utility Radio Telemetry	-	-	-	75,609	-	-	\$75,609
Voorhees Lift Station Upgrade	2,150,000	-	-	-	-	-	\$2,150,000
Meadows Lift Station Upgrade	-	-	-	1,600,000	-	-	\$1,600,000
Wastewater Master Plan Update	-	300,000	-	-	-	-	\$300,000
Palm Lift Station Upgrade	-	-	-	1,400,000	-	-	\$1,400,000
City Hall Lift Station	-	-	-	-	-	1,000,000	\$1,000,000
Wastewater Projects Total	\$10,408,132	\$1,400,000	\$1,100,000	\$4,175,609	\$1,500,000	\$2,500,000	\$18,583,741
Wastewater Total	\$10,408,132	\$1,400,000	\$1,100,000	\$4,175,609	\$1,500,000	\$2,500,000	\$18,583,741

Items highlighted in red represent modifications made from the previously adopted 5-Year CIP.
 Items highlighted in blue shading represent grant funded projects.

SCHEDULE OF CAPITAL PROJECTS BY FUND

	Prior Year Appropriation ¹	FY20/21	FY21/22	FY22/23	FY23/24	FY24/25	TOTAL Five-Year
Parking Fund							
Parking Projects							
Parking Structure Structural Rehab: Lot 4	642,358	-	-	-	-	-	\$642,358
Parking Structure Structural Analysis/Design: Lot 3	-	-	-	150,000	800,000	-	\$950,000
Way Finding Program (Phase 1)	347,184	-	-	-	-	-	\$347,184
Parking Projects Total	\$989,542	-	-	\$150,000	\$800,000	-	\$1,939,542
Parking Total	\$989,542	-	-	\$150,000	\$800,000	-	\$1,939,542
State Pier & Lot Fund							
Parking Projects							
Pier Railings - Design	150,084	-	1,400,000	-	-	-	\$1,550,084
Parking Projects Total	\$150,084	-	\$1,400,000	-	-	-	\$1,550,084
State Pier & Lot Fund Total	\$150,084	-	\$1,400,000	-	-	-	\$1,550,084

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Streetlight Fund
Carryover Project #: 20101E
Original Funding Year: 2019-20
General Plan Element Goals: I-1, I-2

Project Title: Annual Streetlight Replacement (Streetlight Fund)

Description: Replace the City-owned streetlights as needed citywide.

Justification: The City purchased the streetlights from Southern California Edison, and the replacement of the lights will now be included as part of the City's infrastructure capital plan.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streetlight Fund	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 210,000
	TOTAL	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 210,000

Location Map:

No map; Citywide

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Street & Highways

Carryover Project #: 16108E

Original Funding Year: 2015-16

General Plan Element Goals: I-1, I-6

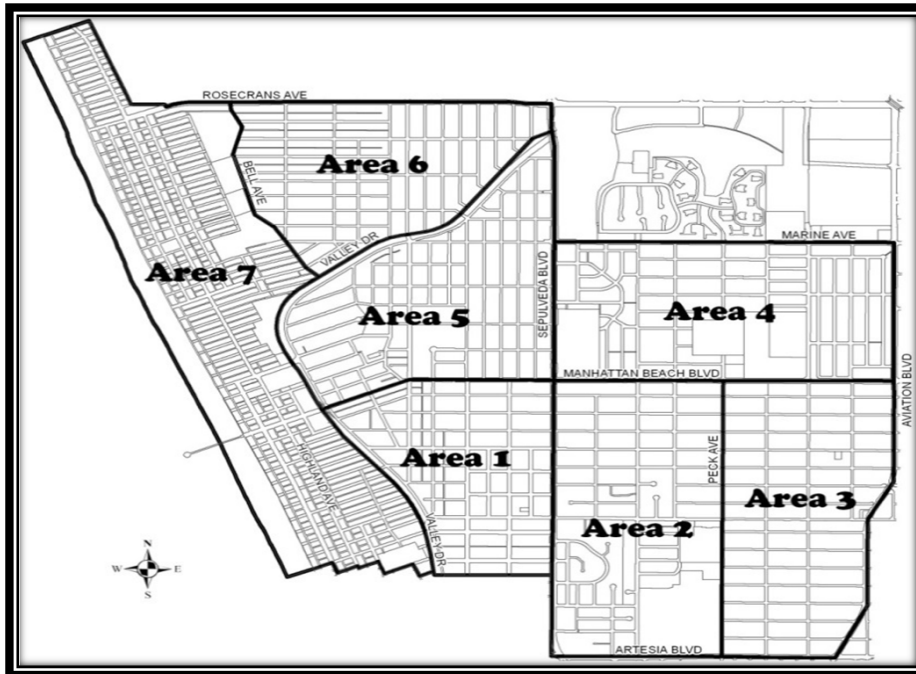
Project Title: Annual Curb, Gutter and Ramp Replacement Project

Description: This annual program is designed to perform concrete improvements in advance of slurry sealing. A different area is addressed each year, so that the entire City is improved within a seven year cycle. Curb ramps are also installed as needed to comply with the Americans with Disabilities Act.

Justification: Tree roots and soil settlement cause displacement of curbs gutters and sidewalk. This project will eliminate displacements and gutter ponding.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
Streets & Highway		\$ 289,158	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 2,114,158
TOTAL		\$ 289,158	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 2,114,158

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Street & Highways

Carryover Project #: 19104E

Original Funding Year: 2018-19

General Plan Element Goals: LU-3, LU-4, I-1, I-6, HE-3, CR-1 & CS-1

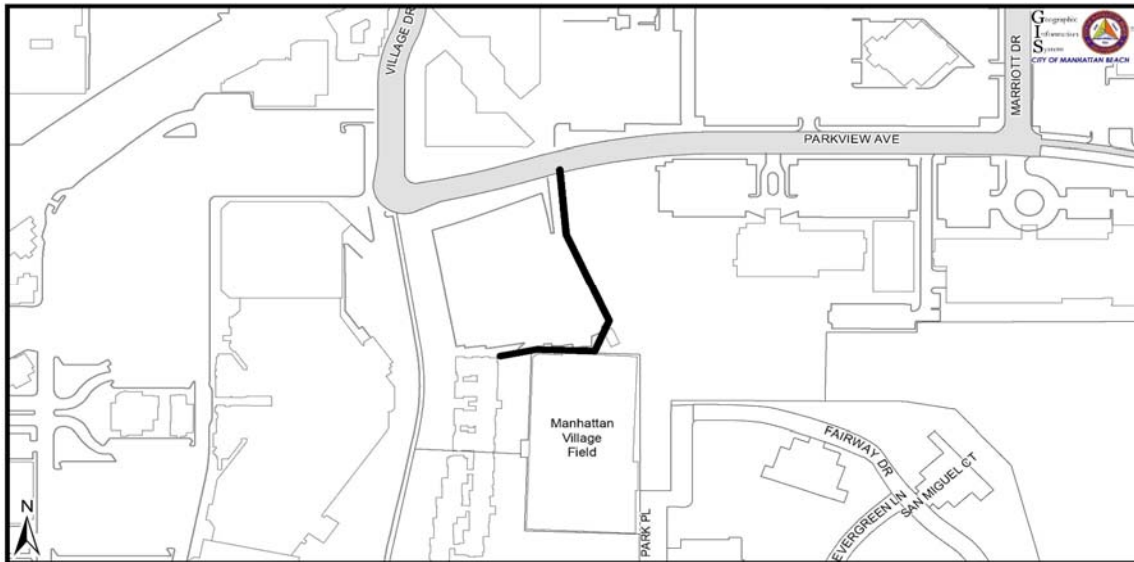
Project Title: Village Field ADA Access: Design (w/CIP Funding)

Description: Installing ADA pathway to connect pedestrian walkways on Parkview Avenue to the Manhattan Beach Village Field and Senior Villas.

Justification: The existing driveway to the Manhattan Beach Village Field, Senior Villas and City Public Park currently lacks an ADA accessible pedestrian pathway connecting to the public street sidewalk on Parkview Ave. This project will construct an ADA compliant pathway connecting the Village Field, Senior Villas and the City Public Park to the public sidewalk located on Parkview Ave.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Highway	\$ 58,165			\$ -	\$ -	\$ -	\$ 58,165
	TOTAL	\$ 58,165	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 58,165

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Street & Highways

Carryover Project #: 16102E

Original Funding Year: 2015-16

General Plan Element Goals: I-1

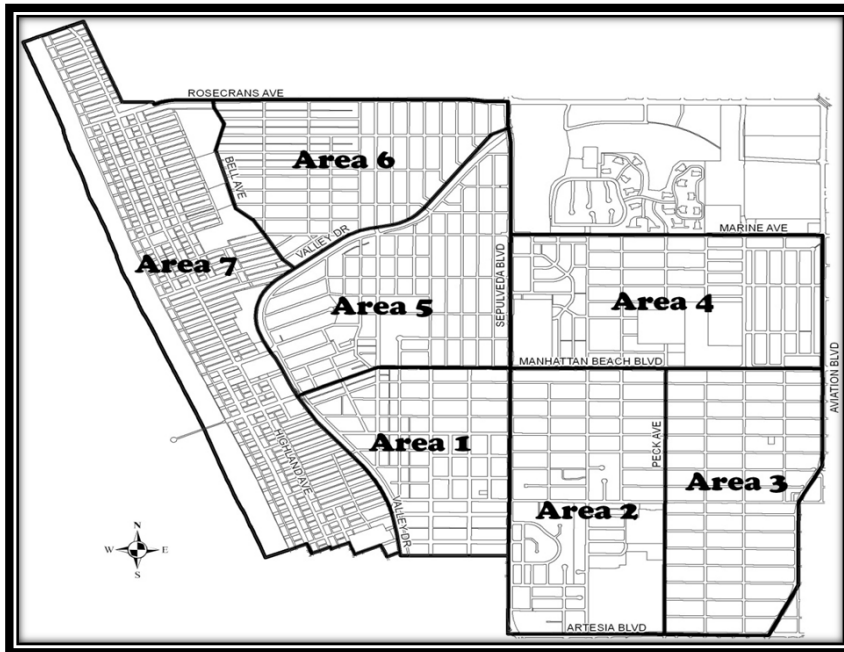
Project Title: Biennial Slurry Seal Program

Description: Biennial program to slurry seal City's streets.

Justification: The slurry seal process works to protect and prolong the life of City streets. This cost is dependent upon oil prices and is adjusted based upon current cost data. The program reflects a continuation of the City's policy to slurry seal streets on a seven year cycle.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Gas Tax	\$ -	\$ -	\$ 970,000	\$ -	\$ 770,000	\$ -	\$ 1,740,000
	TOTAL	\$ -	\$ -	\$ 970,000	\$ -	\$ 770,000	\$ -	\$ 1,740,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Sts Hwys Fund (w/Prop C,
Carryover Project #: 19102E Msr R & Msr M)
Original Funding Year: 2018-19
General Plan Element Goals: I-1

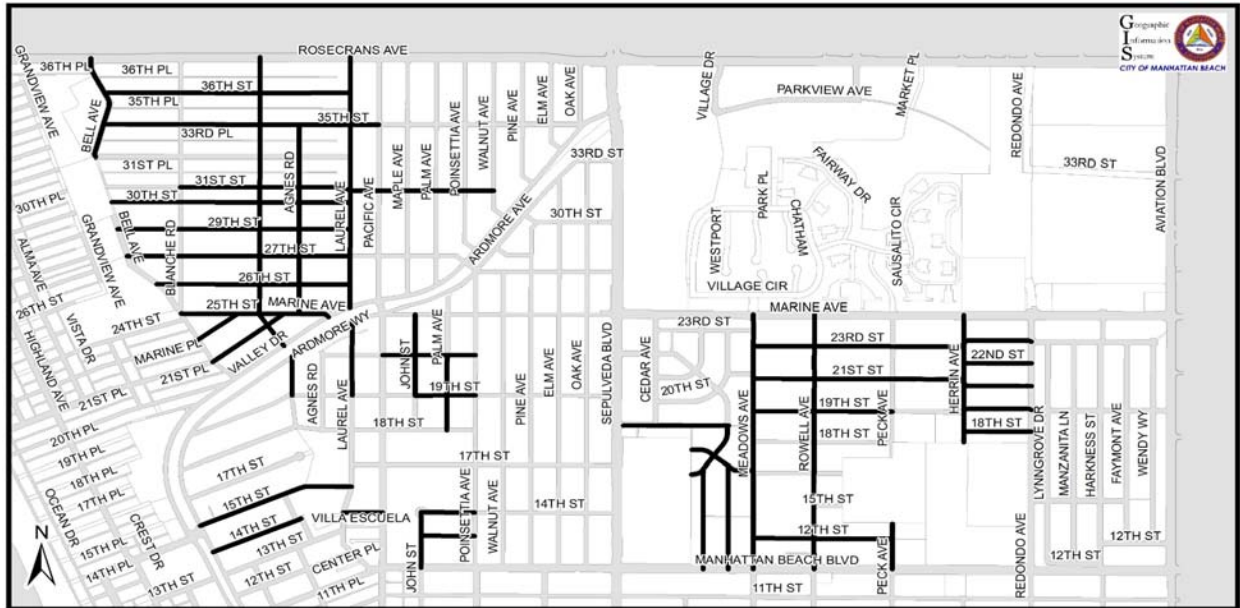
Project Title: Annual Street Resurfacing Program

Description: The project will mill and overlay the pavement surface and replace displaced curbs, gutters, and sidewalk. Locations are determined through the Triennial Pavement Management (TPM) System update, which is performed every three years. The TPM is an inspection of pavement surfaces to assess condition, prioritize rehabilitation and determine resources required to maintain street pavements in good condition.

Justification: Although this title may be new to the CIP, the work is not. Rather than assign individual project numbers to each resurfacing location, this project number will represent all future resurfacing projects.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Hwy Fund	\$ 298,390	\$ 350,000	\$ 650,000	\$ 350,000	\$ 650,000	\$ 350,000	\$ 2,648,390
	TOTAL	\$ 298,390	\$ 350,000	\$ 650,000	\$ 350,000	\$ 650,000	\$ 350,000	\$ 2,648,390

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Street & Highways
Carryover Project #: 16101E
Original Funding Year: 2015-16
General Plan Element Goals: I-1, I-2, I-2.3, I-6

Project Title: Street Resurfacing Project: Rosecrans Avenue (Village Drive to Aviation Boulevard)

Description: The project will mill and overlay the pavement surface, replace displaced curbs, gutters and sidewalk to extend the pavement useful life on Rosecrans Avenue from Village Drive to Aviation Boulevard.

Justification: The existing pavement on Marine Avenue within the project limits is deteriorated and rehabilitation is required.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Highway	\$ 330,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,000
	TOTAL	\$ 330,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,000

Location Map:

No map

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Street & Highways
Carryover Project #: 17101E
Original Funding Year: 2016-17
General Plan Element Goals: I-1

Project Title: Triennial Pavement Management System Update

Description: Inspection of Pavement surfaces to assess condition, prioritize rehabilitation and determine resources required to maintain street pavements in good condition.

Justification: State, federal, and county regulations require that Cities maintain a pavement management system. A pavement management system is a management tool to assist in the development of efficient pavement maintenance and rehabilitation programs. The City is required to inspect pavement condition on a triennial basis. The most recent is currently in the Design Services phase at the time of the CIP plan adoption. The evaluations will update pavement condition for all streets in the City except Sepulveda Boulevard which is a State Highway.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Hwy Fund	\$ -	\$ 40,000	\$ -	\$ -	\$ 40,000	\$ -	\$ 80,000
	TOTAL	\$ -	\$ 40,000	\$ -	\$ -	\$ 40,000	\$ -	\$ 80,000

Location Map:

No map, system update

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Streets & Hwy and SBHP
Carryover Project #: 16104E
Original Funding Year: 2015-16
General Plan Element Goals: I-1

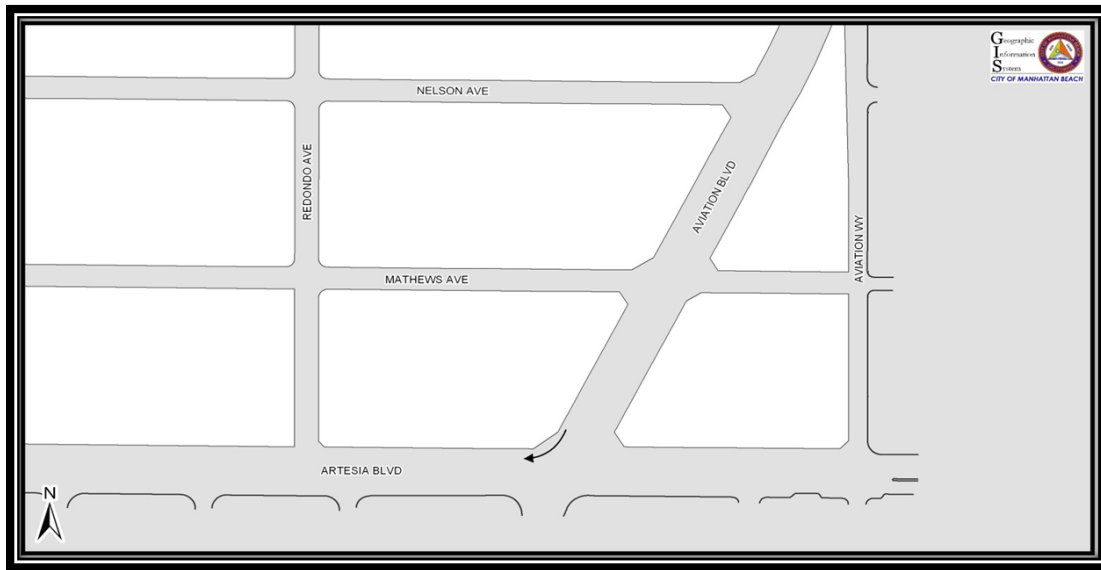
Project Title: Aviation Boulevard at Artesia Boulevard Southbound to Westbound Right-Turn Lane (SBHP Grant)

Description: Utility relocation, street widening and restriping of the northwest corner of the intersection of Aviation Boulevard at Artesia Boulevard to provide Southbound to westbound right-turn lanes. This project will be coordinated with City of Redondo Beach widening efforts on the southeast corner of this intersection.

Justification: The southbound to westbound right-turn movement at Aviation Boulevard at Artesia Boulevard is congested due the lack of lane capacity.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Hwy Fund (and SBHP Grant)	\$ 1,299,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,299,789
TOTAL		\$ 1,299,789	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,299,789

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Streets & Hwy Fund and HSIP
Carryover Project #: 14821E
Original Funding Year: 2013-14
General Plan Element Goals: I-1, I-2

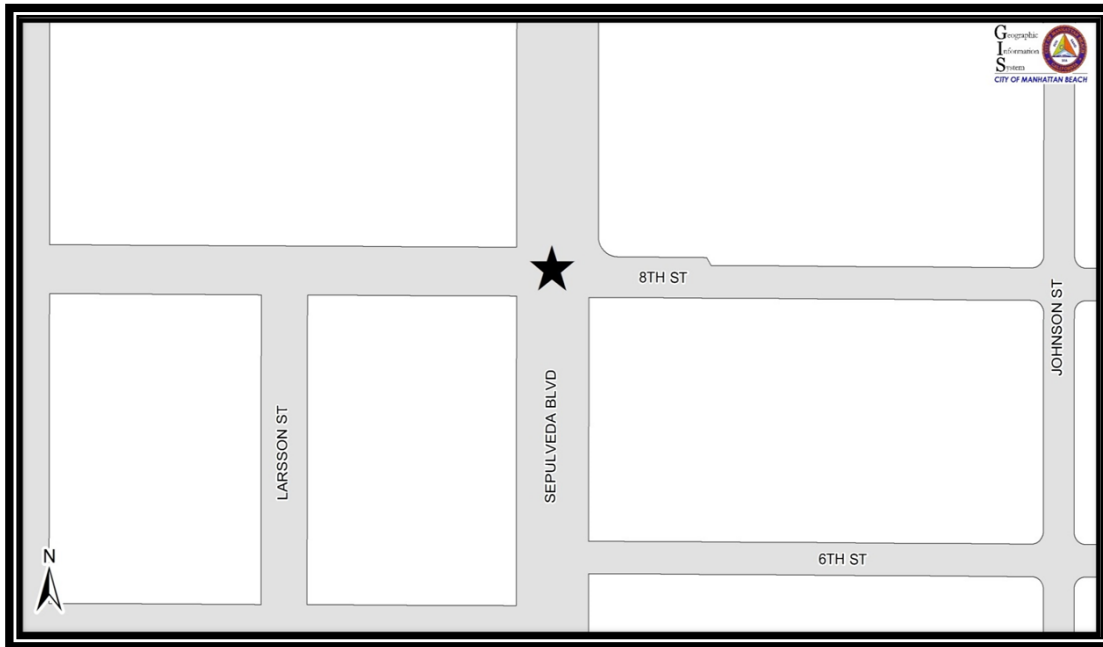
Project Title: Sepulveda Boulevard & 8th Street Intersection Improvements, Northbound and Southbound from Sepulveda to 8th (Highway Safety Improvement Program – HSIP)

Description: Upgrade traffic signals, install protected left-turn phasing and construct curb ramps to comply with current ADA standards.

Justification: This project aims to improve driver decisions about rights of way and turning based on a spot location safety analysis and a road safety assessment. This project is further justified in light of ongoing accident history at this location with respect to turning vehicles. Total project cost is \$248,800 which includes \$223,800 in Federal Funds and a 10% Local match contribution of \$25,000.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Streets & Hwy Fund (HSIP Grant)	\$ 207,858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 207,858
	TOTAL	\$ 207,858	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 207,858

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Prop C (w/ Sts Hwys,
Carryover Project #: 19102E Msr R & Msr M)
Original Funding Year: 2018-19
General Plan Element Goals: I-1, I-2, I-2.3, I-6

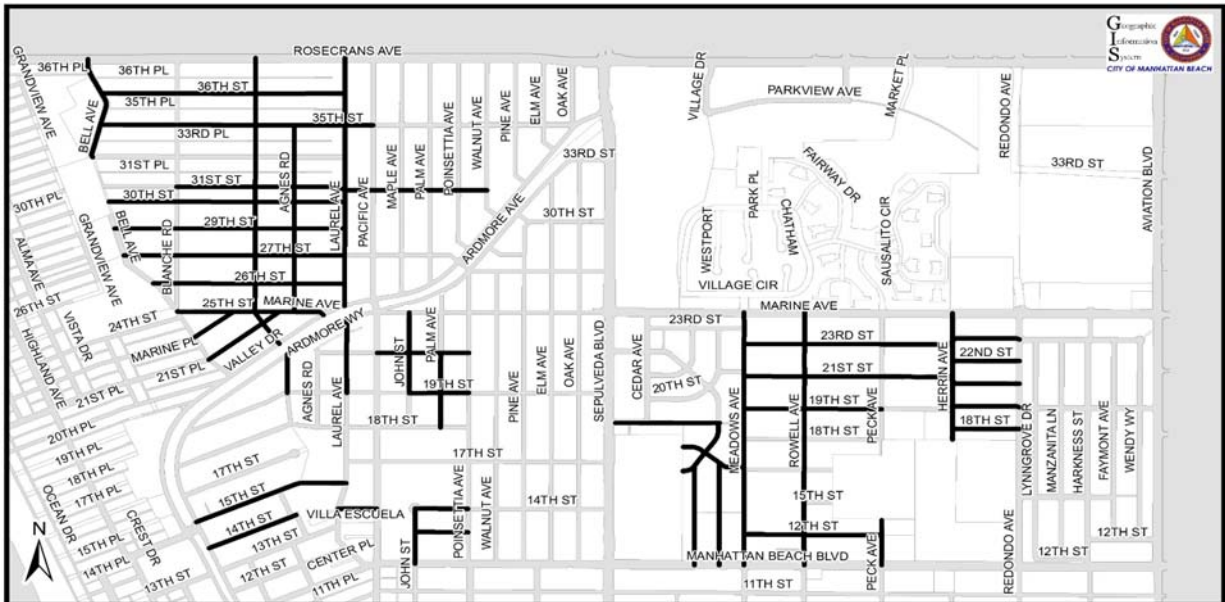
Project Title: Annual Street Resurfacing Program

Description: The project will mill and overlay the pavement surface and replace displaced curbs, gutters, and sidewalk. Locations are determined through the Triennial Pavement Management (TPM) System update, which is performed every three years. The TPM is an inspection of pavement surfaces to assess condition, prioritize rehabilitation and determine resources required to maintain street pavements in good condition.

Justification: Although this title may be new to the CIP, the work is not. Rather than assign individual project numbers to each resurfacing location, this project number will represent all future resurfacing projects.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Prop C	\$ 732,790	\$ 800,000	\$ -	\$ 1,200,000	\$ -	\$ 1,200,000	\$ 3,932,790
	TOTAL	\$ 732,790	\$ 800,000	\$ -	\$ 1,200,000	\$ -	\$ 1,200,000	\$ 3,932,790

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Proposition C Local Return SBHP Grant
Carryover Project #: 09823E
Original Funding Year: 2008-09
General Plan Element Goals: I-1, I-2, I-2.3

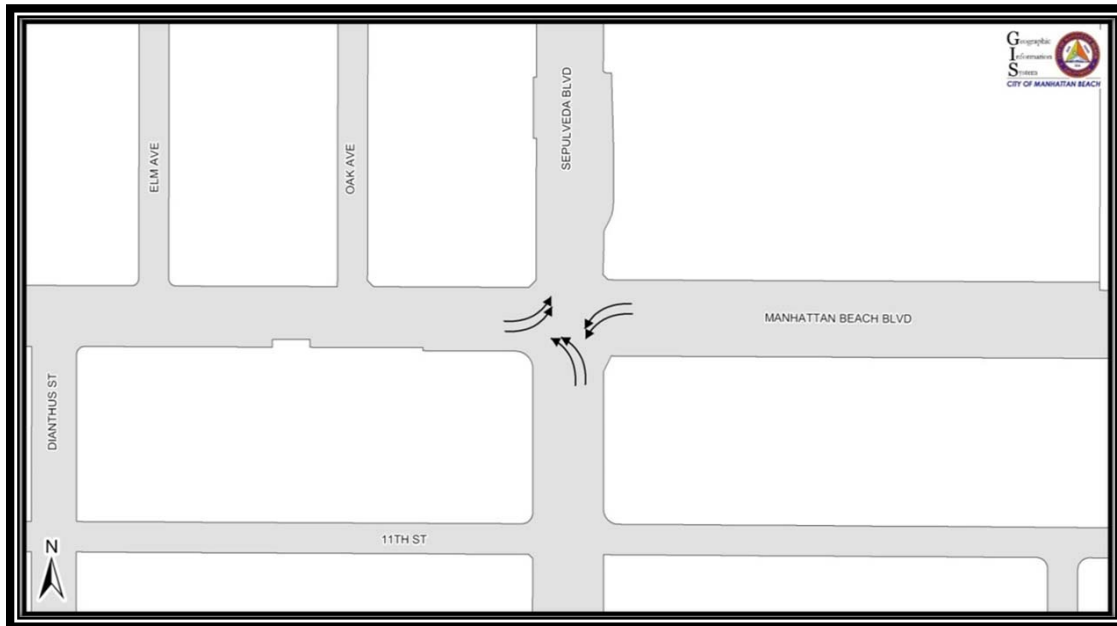
Project Title: Dual Left-Turn Lanes on Manhattan Beach Boulevard at Sepulveda Boulevard, EB to NB, NB to WB, WB to SB (SBHP Grant)

Description: Widening and restriping of the intersection of Sepulveda Boulevard at Manhattan Beach Boulevard to provide Westbound to Southbound, Eastbound to Northbound and Northbound to Westbound Left-Turn Lanes.

Justification: Left-turn movements at Sepulveda Boulevard at Manhattan Beach Boulevard are congested due the lack of lane capacity.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Proposition C (SBHP Grant)	\$ 1,204,980	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,204,980
TOTAL		\$ 1,204,980	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,204,980

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Proposition C Lr Prop C, MTA Call, SBHP
Carryover Project #: 10827E (Prop C Local)
 13840E (MTA Call) & 13841E (Msr R SBHP)
General Plan Element Goals: LU-8, I-1, I-2

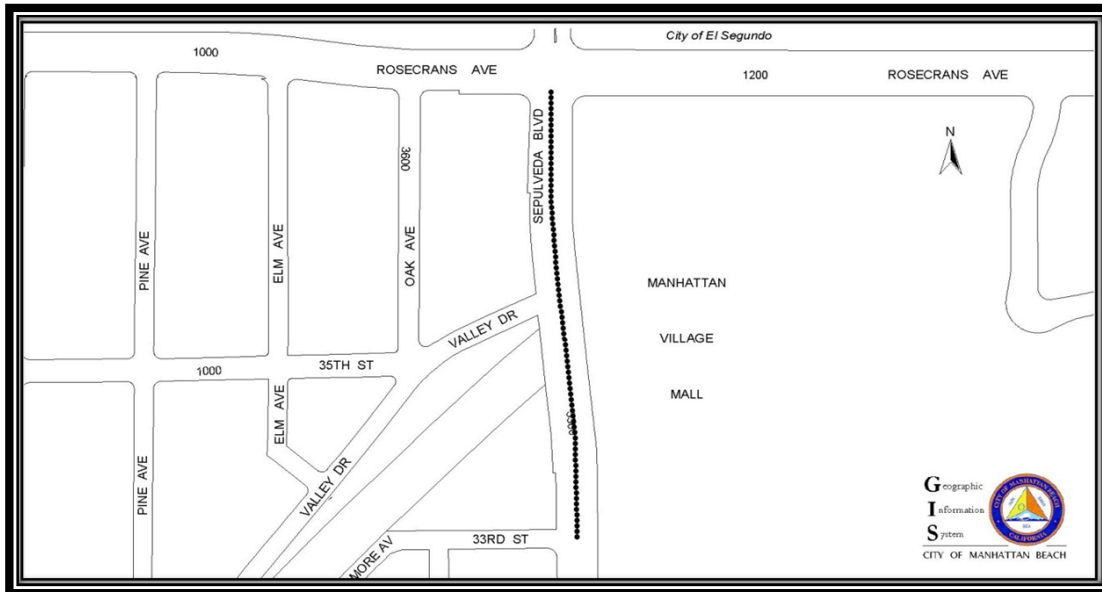
Project Title: Sepulveda Bridge Widening Project

Description: Add one northbound through lane by widening Sepulveda Bridge on the east side.

Justification: This project will improve traffic flow on Sepulveda Boulevard (a major north-south regional arterial street) by eliminating a bottleneck that exists at the bridge.

Project Cost Information:	Funding Source(s):	Remaining funds as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Proposition C (SBHP Grant)	\$ 7,871,422	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,871,422
	Proposition C (MTA Call Grant)	\$ 6,399,876	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,399,876
	Proposition C (Prop C Local)	\$ 3,557,911	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,557,911
TOTAL		\$ 17,829,209	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,829,209

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Grant Funded SBHP
Carryover Project #: 17102E
Original Funding Year: 2016-17
General Plan Element Goals: I-1, I-2, I-2.3

Project Title: Sepulveda Intersection Improvements: Cedar Ave. & Marine Ave. (SBHP Grant)

Description: Modify lane configuration to increase capacity at the intersection of Cedar Ave. and Marine Ave. (east of Sepulveda Blvd.).

Justification: In July 2009, the Southern California Association of Governments (SCAG) and the SBCCOG commissioned a study on “User-Based Microanalysis of State Route 1, Pacific Coast Highway” (2009 PCH Study). In the 2009 PCH Study, 125 intersections were studied from Imperial Highway in the City of El Segundo to Crenshaw Boulevard in the City of Torrance. Given the high number of intersections, the study was intended to provide high-level analysis and preliminary recommendations. From the 125 intersections, 30 are located within the City of Manhattan Beach. The 2009 PCH Study recommended intersection improvements along 8 of the 30 intersections and recommended median improvements from 11th Street to the Southerly City Limit to help alleviate traffic congestions at the intersections. In May 2014, the City was awarded funding from the SBHP to prepare a feasibility study to further evaluate the intersections within the City of Manhattan Beach. On August 12, 2014, JMD was awarded a contract in the amount of \$49,950 to prepare the feasibility study. This study recommended improvements to five intersections that were studied. The study concluded that by adding capacity at the left-hand turn pockets and modifying lane configurations at these five intersections, congestion would be relieved through the Sepulveda Corridor. The benefit would also reduce cut-through traffic on local streets and reduce delays. In 2019, Caltrans agreed to carry out most of the improvements located directly on Sepulveda Blvd.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Proposition C (SBHP Grant)	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
	TOTAL	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000

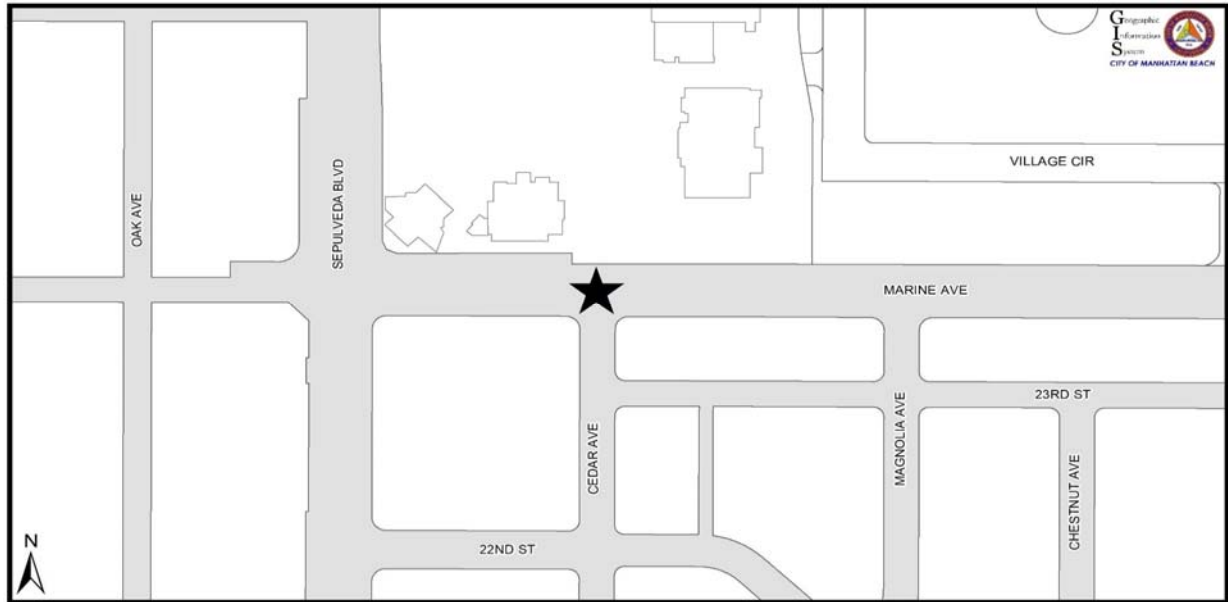
Location Map:

Map located on next page

City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets

Project Title: Sepulveda Intersection Improvements: Cedar Ave. & Marine Ave. (SBHP Grant)

Location
Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Measure R (w/ Sts Hwys,
Carryover Project #: 19102E Prop C & Msr M)
Original Funding Year: 2018-19
General Plan Element Goals: I-1, I-2, I-2.3, I-6

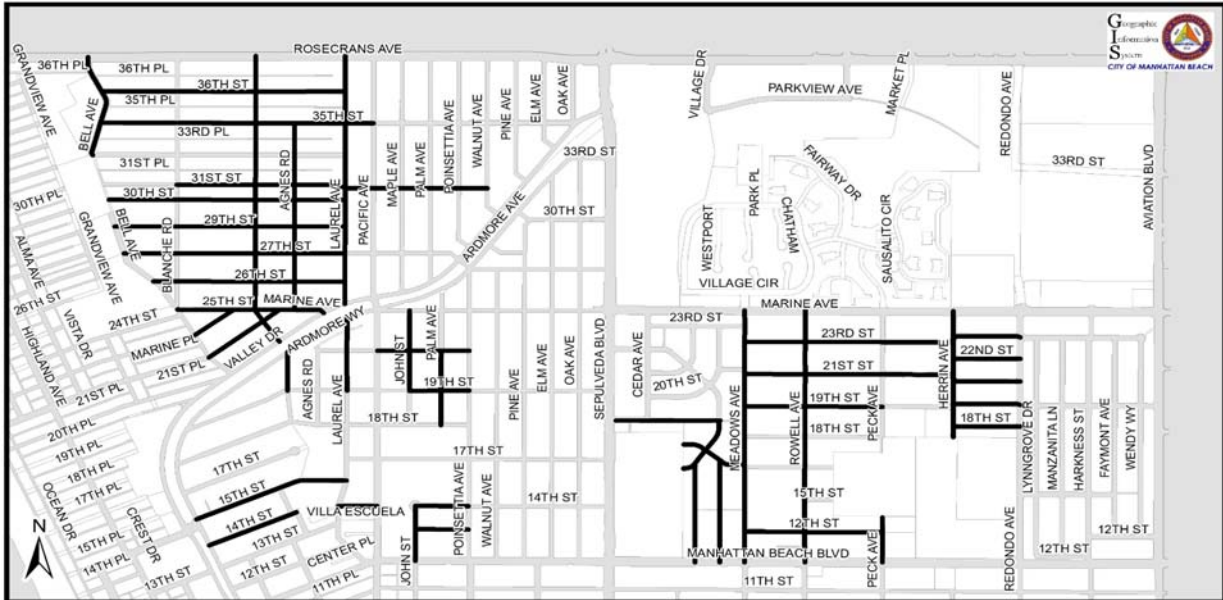
Project Title: Annual Street Resurfacing Program

Description: The project will mill and overlay the pavement surface and replace displaced curbs, gutters, and sidewalk. Locations are determined through the Triennial Pavement Management (TPM) System update, which is performed every three years. The TPM is an inspection of pavement surfaces to assess condition, prioritize rehabilitation and determine resources required to maintain street pavements in good condition.

Justification: Although this title may be new to the CIP, the work is not. Rather than assign individual project numbers to each resurfacing location, this project number will represent all future resurfacing projects,

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure R	\$	400,000	\$ -	\$ 800,000	\$ -	\$ 800,000	\$ 2,000,000
	TOTAL	\$ -	\$ 400,000	\$ -	\$ 800,000	\$ -	\$ 800,000	\$ 2,000,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure R Local Return

Carryover Project #: 17104E

Original Funding Year: 2016-17

General Plan Element Goals: I-1, I-2

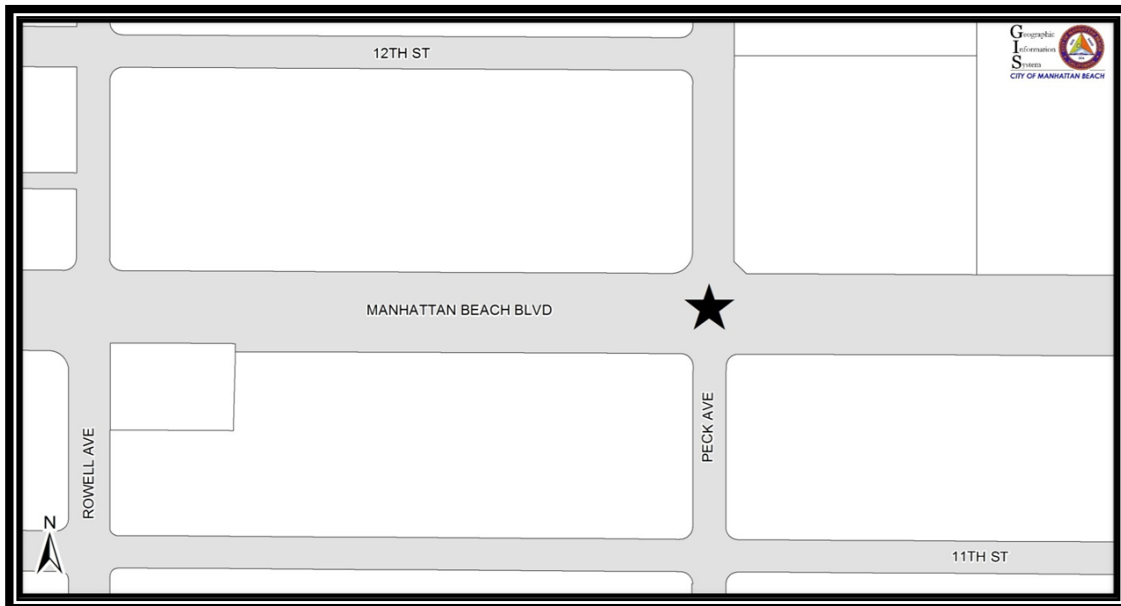
Project Title: Protected Left-Turns: Manhattan Beach Blvd. at Peck Ave.

Description: Design and construct protected left turns in the eastbound and westbound directions at the intersection of Manhattan Beach Boulevard and Peck Avenue.

Justification: Sight distance restriction in left turn lane has been confirmed by the City Traffic Engineer pursuant to a resident request. A hill west of the intersection restricts the view of approaching traffic from the turn pocket. Protected left turn arrows would improve traffic safety by addressing the sight distance restriction and eliminating pedestrian conflicts with left turning traffic. The intersection is in close proximity to and on designated school routes to Meadows Elementary School and Manhattan Beach Middle School.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure R Local Return	\$ 285,000	\$ 260,000	\$ -	\$ -	\$ -	\$ -	\$ 545,000
	TOTAL	\$ 285,000	\$ 260,000	\$ -	\$ -	\$ -	\$ -	\$ 545,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure R Local Return
Carryover Project #: 19106E
Original Funding Year: 2018-19
General Plan Element Goals: I-6

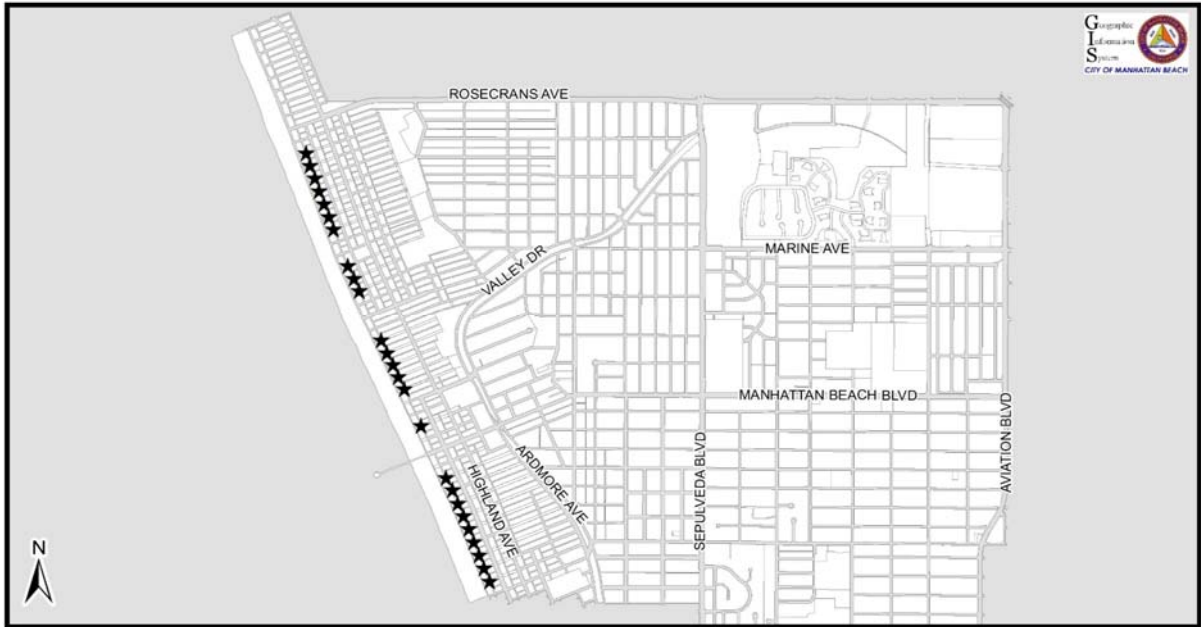
Project Title: Ocean Drive Walkstreet Crossing

Description: Construct raised or decorative crosswalks on Ocean Drive at walkstreets (25 locations).

Justification: The project will design and construct 25 raised and/or decorative crosswalks on Ocean Drive at walkstreet crossings. The enhanced crossings will improve pedestrian safety and calm traffic along Ocean Drive. These improvements will also encourage beach access and enhance the view along the walkstreets. Enhanced crossing treatments have been recommended in the City's Mobility Plan, and have been requested by numerous residents.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure R	\$ -	\$ -		\$ 450,000	\$ -	\$ -	\$ 450,000
	Local Return							
	TOTAL	\$ -	\$ -	\$ -	\$ 450,000	\$ -	\$ -	\$ 450,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure R Local Return
Carryover Project #: 13829E
Original Funding Year: 2012-13
General Plan Element Goals: I-6

Project Title: Rosecrans Bike Lane Improvements (relocated from CIP Fund)

Description: Installation of a bike lane on Rosecrans Ave.

Justification: This project would provide an annual account from which pedestrian and bicycle enhancements could be funded. Improvements such as high visibility pedestrian crossings, bike lanes, pedestrian and bicycle related traffic calming measures and other bicycle and pedestrian amenities would be funded through this project. Specific projects to be pursued include ones identified in the South Bay Bicycle Master Plan.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure R Local Return	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,000
	TOTAL	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240,000

Location Map:

No map

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure R Local Return
Carryover Project #: 20102E
Original Funding Year: 2019-20
General Plan Element Goals: I-6

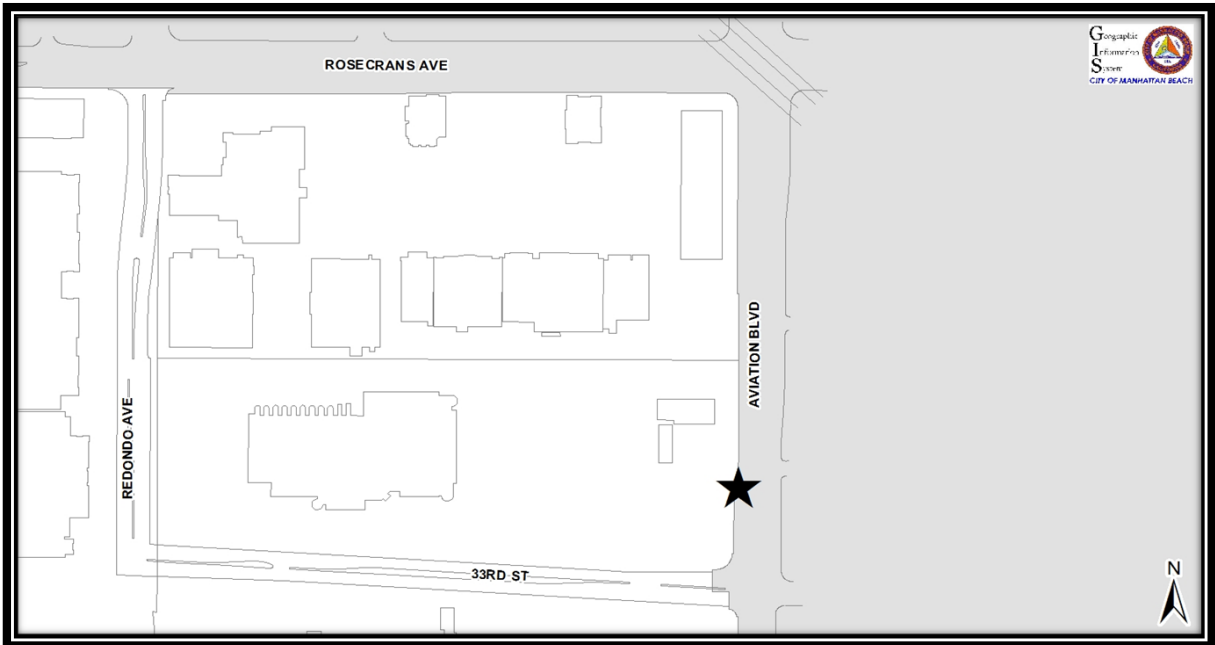
Project Title: Aviation (West-side) and 33rd Street Sidewalk (partial grant 5310)

Description: Install missing link of sidewalk on Aviation near 33rd St. This work includes removal and replacement of significant irrigation/landscaping, regrading and various improvements to protect existing sign and wall footings.

Justification: This is a busy wide arterial roadway. The proposed sidewalk provides an important quality of life amenity for people to connect the employment centers to other commercial, entertainment and eatery establishments in the area.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure R	\$ 100,000	\$ 600,000	\$ -		\$ -	\$ -	\$ 700,000
	Local Return							
	TOTAL	\$ 100,000	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 700,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure M Local Return

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-1, I-2

Project Title: Manhattan Beach Automatic Traffic Sync (MBATS)

Description: MBATS System will allow the City to design and construct a complete fiber backbone infrastructure that will connect all City-owned signalized intersections with a high-speed fiber network that will support emerging traffic management technologies. Each traffic signal will be installed with Advanced Transportation Controllers (ATC) and Video (Detection) Management Systems (VMS) capable of communicating via advanced fiber networks. Certain strategic intersections will also include a high-definition, internet-protocol, close circuit television (CCTV) camera system for fast response traffic operation incident management. City gateway corridors such Rosecrans Avenue, Manhattan Beach Boulevard and Artesia Boulevard will have the capability to incorporate Dynamic Message Signs (DMS) and handheld mobile device application technology that will provide real time traffic information for commuter traffic to nearby freeways and the State highway. Connections to both City Hall and the Public Works Yard staff workstations will allow for remote access of the traffic signal network.

Justification: Currently, the City's traffic signals along the arterial corridors throughout Manhattan Beach are activated using one or more standard technologies, including loop detection, video detection and pre-set signal timing. These intersections carry a significant amount of outbound, inbound and through traffic during peak commute times of the day. The traffic signals' controls are limited by current technologies and they are physically maintained and programmed on-site by Los Angeles County Department of Public Works (LAC-DPW) through a long standing City-County Maintenance Service Agreement. The City's MBATS System Project proposes to upgrade signal controller equipment and connect them through a fiber optic backbone infrastructure that will support emerging traffic management technologies, such as dynamic signal timing, vehicle to vehicle connections, autonomous vehicles, public safety preemption and other smart cities initiatives that can improve traffic signalization and operational efficiencies.

Project Cost Information:

Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
Measure M	\$ -	\$ 3,640,000	\$ 1,800,000	\$ -	\$ -	\$ -	\$ 5,440,000
Local Return							
TOTAL	\$ -	\$ 3,640,000	\$ 1,800,000	\$ -	\$ -	\$ -	\$ 5,440,000

Location Map:

Figure 1 - Map of Inventory Locations



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure M Local Return

Carryover Project #: 20104E

Original Funding Year: 2019-20

General Plan Element Goals: I-1, I-6

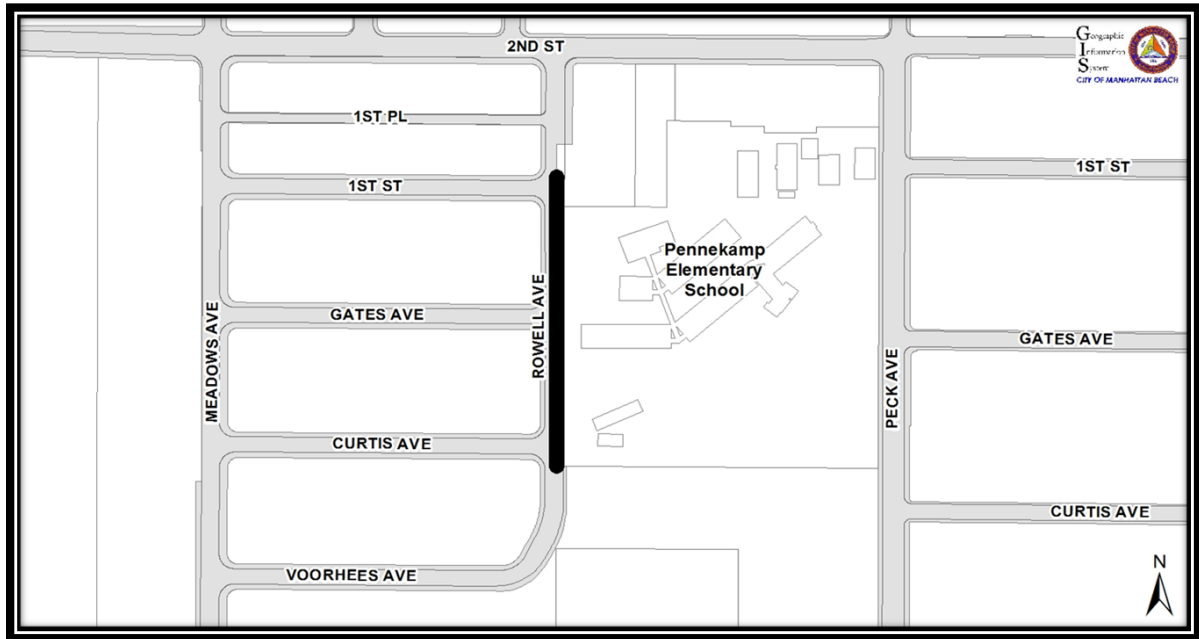
Project Title: Rowell Avenue Sidewalk Connection (Curtis & 1st St.)

Description: Installation of a missing sidewalk in front of Pennekamp Elementary; requires substantial construction work for ADA compliance including drainage/storm drain improvements.

Justification: This is a specific request from the School District to enhance the safety of the kids/parents that walk to the school. This project is a good candidate for grant application to obtain supplemental funding.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure M	\$ 200,000	\$ 640,000	\$ -		\$ -	\$ -	\$ 840,000
	Local Return							
	TOTAL	\$ 200,000	\$ 640,000	\$ -	\$ -	\$ -	\$ -	\$ 840,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Measure M (w/ Sts Hwys,
Carryover Project #: 19102E Prop C & Msr R)
Original Funding Year: 2018-19
General Plan Element Goals: I-1, I-2, I-2.3, I-6

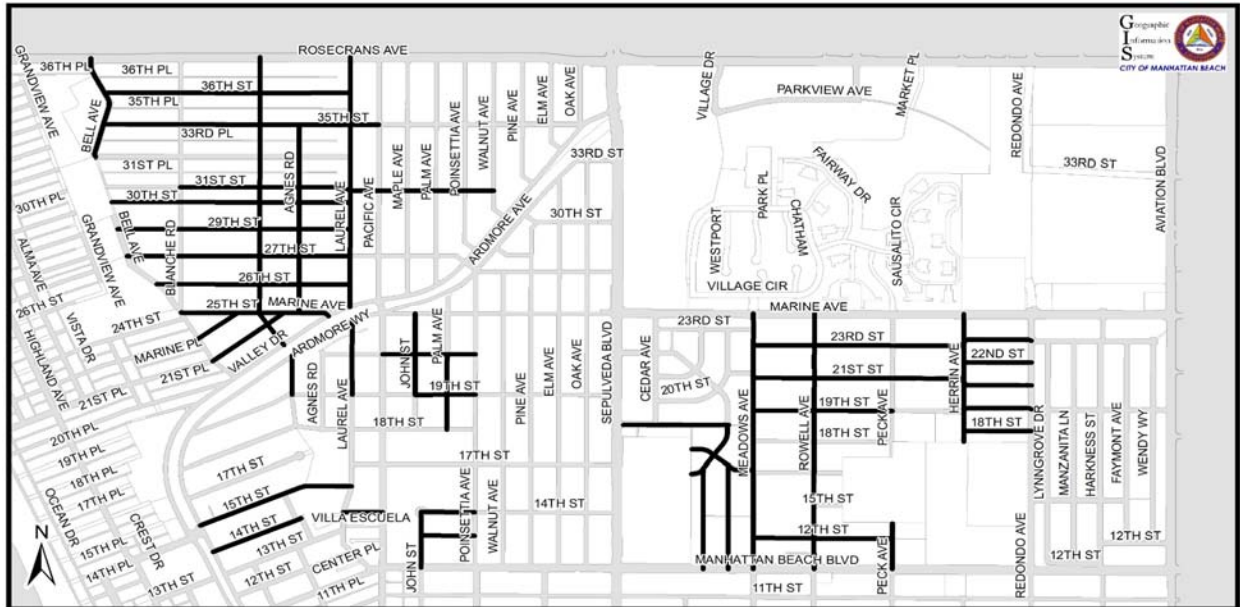
Project Title: Annual Street Resurfacing Program

Description: The project will mill and overlay the pavement surface and replace displaced curbs, gutters, and sidewalk. Locations are determined through the Triennial Pavement Management (TPM) System update, which is performed every three years. The TPM is an inspection of pavement surfaces to assess condition, prioritize rehabilitation and determine resources required to maintain street pavements in good condition.

Justification: Although this title may be new to the CIP, the work is not. Rather than assign individual project numbers to each resurfacing location, this project number will represent all future resurfacing projects beginning FY18-19.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure M	\$ -	\$ -	\$ 600,000	\$ -	\$ 800,000	\$ -	\$ 1,400,000
	TOTAL	\$ -	\$ -	\$ 600,000	\$ -	\$ 800,000	\$ -	\$ 1,400,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Measure M Local Return
Carryover Project #: 20105E
Original Funding Year: 2019-20
General Plan Element Goals: I-1, I-2

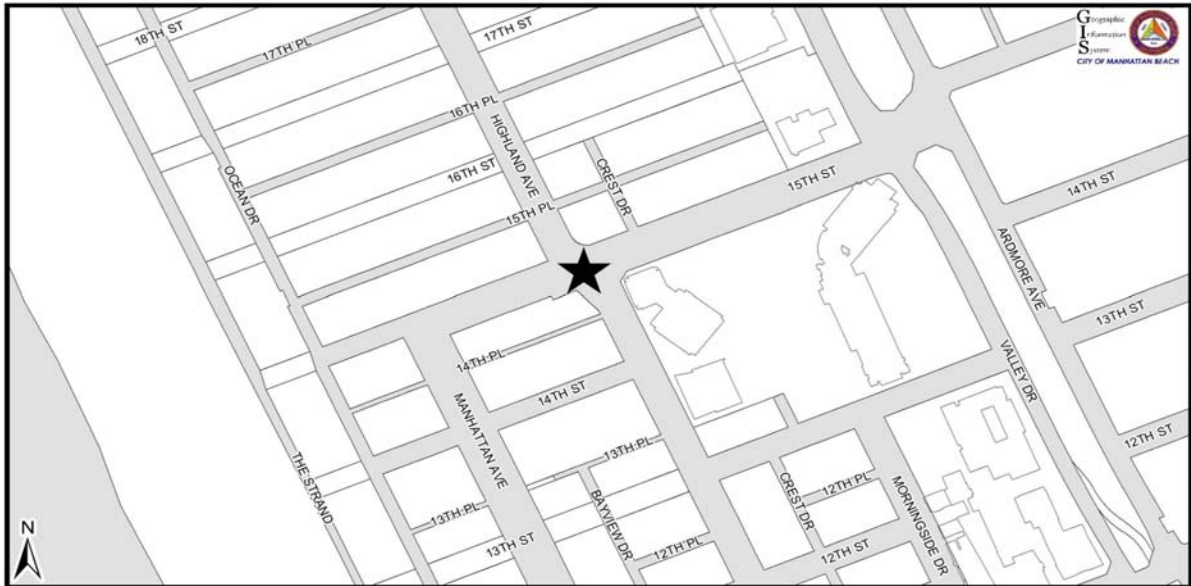
Project Title: Traffic Signal Pole: 15th St. and Highland Ave.

Description: Replacement of existing traffic signal pole at 15th St. and Highland Ave.

Justification: Traffic pole replacements are scheduled as routine infrastructure projects as the poles exceed their useful life.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Measure M	\$ 280,000	\$ -			\$ -	\$ -	\$ 280,000
	Local Return							
	TOTAL	\$ 280,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 280,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 15828E
Original Funding Year: 2014-15
General Plan Element Goals: LU-3, LU-3.1, CS-1

Project Title: Facility Improvements

Description: Repair and refurbish building structures citywide based on the results of the Facilities Condition Assessment and Council direction.

Justification: This project reflects funding for deficiencies identified as part of the City Facilities Condition Assessment. The funding is assigned in increments spanning multiple years. Work includes, but is not limited to, repainting the exterior of the buildings, replacing flooring, replacing sealants at the perimeter of the windows, bathroom repairs and repairing asphalt outside of the buildings.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 161,853	\$ 600,000	\$ 400,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 2,961,853
	TOTAL	\$ 161,853	\$ 600,000	\$ 400,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 2,961,853

Location

Map: No map; various facilities Citywide

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund

Carryover Project #:

Original Funding Year:

General Plan Element Goals: LU-3, LU-3.1, CS-1

Project Title: Citywide Security Cameras

Description: Install security cameras at various locations citywide.

Justification: Installing security cameras is a measure to increase the safety and security of the community.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 430,000
	TOTAL	\$ 430,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 430,000

Location

Map:

No map; various locations Citywide

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund

Carryover Project #:

Original Funding Year:

General Plan Element Goals: LU-3, LU-3.1, CS-1

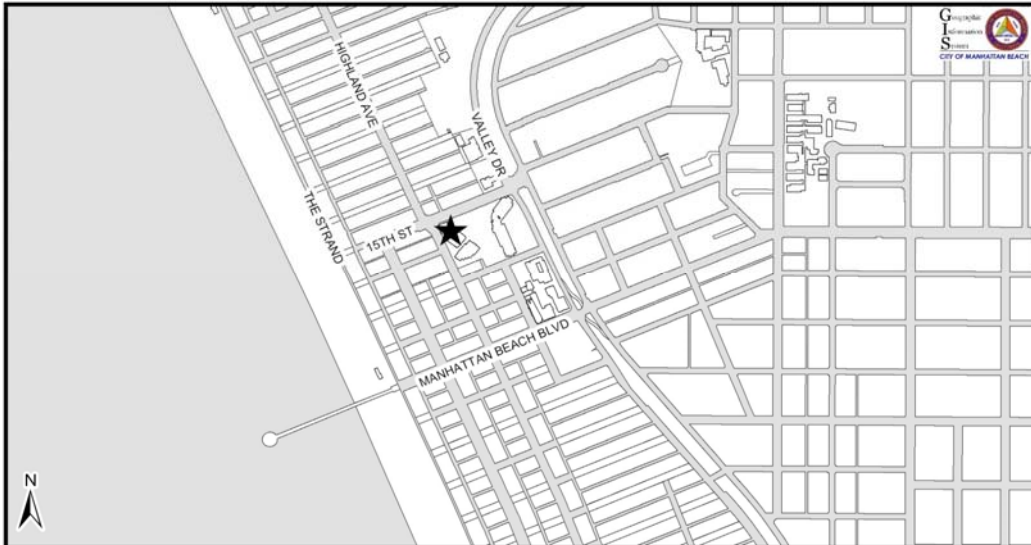
Project Title: City Hall HVAC System Replacement/Repair

Description: Replacement/repair of the City Hall HVAC system. The scope of work for the project may involve installing a separate and back-up HVAC system for the server room, replacing deteriorated ductwork and HVAC components, and upgrading the existing building management software (BMS).

Justification: The current system has been in place for over 20 years and has exceeded its useful life. Due to the age of the system, service and components are difficult to obtain. System outages are a regular occurrence and there are wide temperature fluctuations within different areas at City Hall. Furthermore, the system lacks an adequate back-up system for the server room, a room that requires specific temperature settings.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000
	TOTAL	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund

Carryover Project #:

Original Funding Year:

General Plan Element Goals: LU-3, LU-3.1, CS-1

Project Title: Roof Replacements at Maine, Live Oak and Rec Hall

Description: Replace the roofs at Marine, Live Oak and Rec Hall.

Justification: The roofs at Marine, Live Oak and Rec Hall are in poor condition and must be replaced.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 354,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 354,020
	TOTAL	\$ 354,020	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 354,020

Location

Map:

No map

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 18202E
Original Funding Year: 2017-18
General Plan Element Goals: I-1

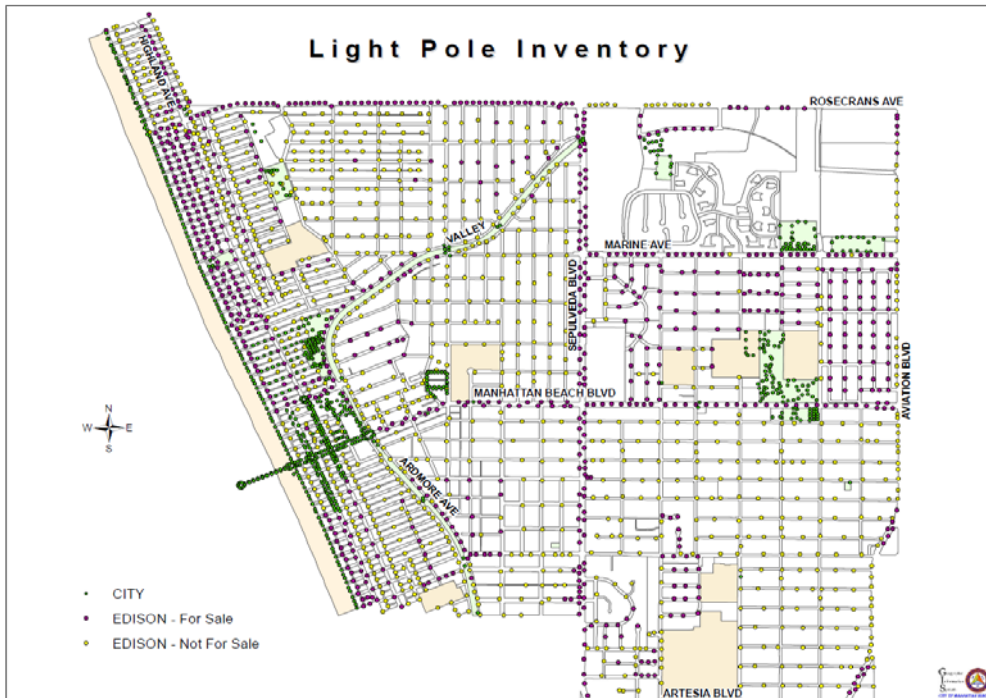
Project Title: Streetlight LED Retrofit

Description: LED retrofit of approximately 900 street lights throughout the City which the City recently purchased from Southern California Edison.

Justification: The City of Manhattan Beach has entered into an agreement with Southern California Edison, purchasing approximately 900 qualifying street lights. The lights will now be converted to LED bulbs. Space on the city-owned poles may also be leased to telecom providers to enhance cell phone and other wireless communications, as well as be utilized by the City for other city-related smart technology applications.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 332,023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 332,023
	TOTAL	\$ 332,023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 332,023

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 17203E
Original Funding Year: 2016-17
General Plan Element Goals: LU 1:11

Project Title: Fiber Master Plan

Description: Develop a City Wide Fiber Master Plan. To accomplish this goal the City will contract with consulting firms to assist with the development of a Fiber Network Design and Business Plan. Their core mission will be to assist the City with analyzing the feasibility and determining economic projections for deploying a fiber network. The consultant also explore the benefits/risks and feasibility of deploying a fiber network that can be used to provide high speed Internet access to Manhattan Beach businesses and residents. Project deliverables typically include: High Level Network Infrastructure Design; Potential Business Model and Strategy; Preliminary Financial Model to Assist with Identifying Opportunities and Risks; & Finalized Project Report Summarizing Findings and Recommendations.

Justification: To achieve the General Plan's vision, the City of Manhattan Beach needs infrastructure to attract investment and support business growth. Today, access to broadband internet service is as vital as streets, water, and sewer infrastructure. Broadband connectivity enhances a community's economic development potential by attracting new advanced businesses and providing existing businesses the tools they need to expand. The Fiber Optic Master Plan will be used by the City for the planning, budgeting and implementation of a landmark fiber optic network infrastructure project. The primary objective of the Fiber Master Plan is to collect and analyze information and data that will provide the best path and business model to deploy a fiber optic network that meets the needs of the community. The Fiber Master Plan will assist in identifying businesses located in Manhattan Beach's several business corridors and residential areas.

Specifically, the outcomes of this contract will:

1. Provide the City with information and data to set its goals and objects to facilitate the design and deployment of a Fiber Optic Network in Manhattan Beach;
2. Research and evaluate the current supply of broadband communication assets, products and services in the City;
3. Produce an inventory and assessment of existing City-owned assets and infrastructure required to support deployment of a fiber network;
4. Define and evaluate potential fiber optic network routes and requirements;
5. Identify impacts of a fiber network including impacts on City right-of-way, City-owned conduit, streetlight pools, traffic lights, existing fiber system and other real property

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 67,133	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,133
	TOTAL	\$ 67,133	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 67,133

Location Map:

No map; citywide

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 16207E
Original Funding Year: 2015-16
General Plan Element Goals: CR-1

Project Title: Installation of New Fitness Equipment and Surfacing at Mariposa Fitness Station

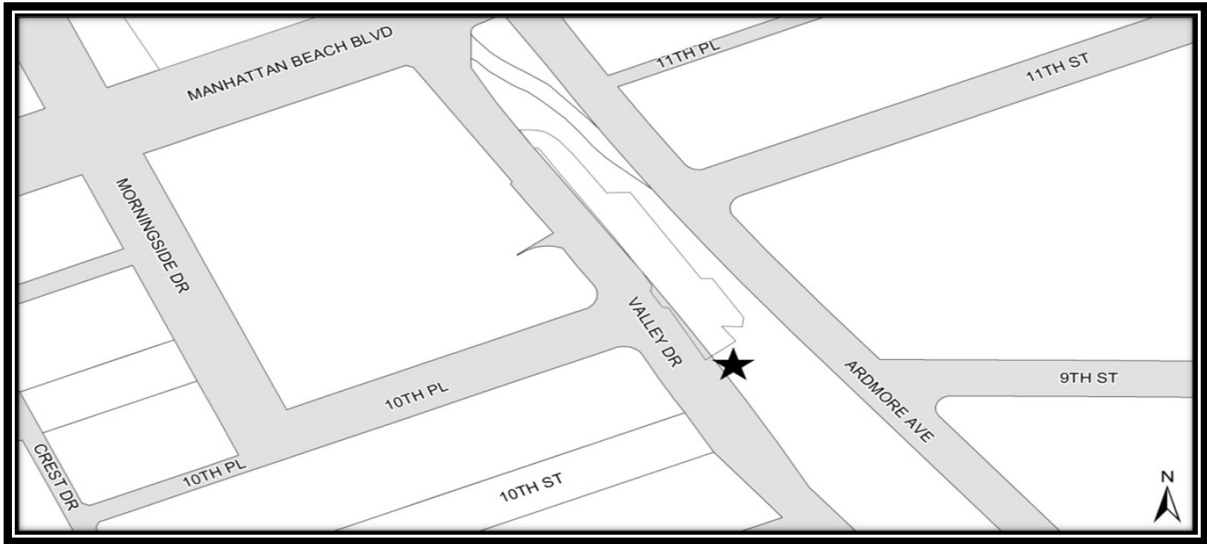
Description: Remove existing worn down and damaged fitness equipment and surfacing installation of new poured in place surfacing material and installation of all new fitness cluster equipment.

Justification: The current fitness equipment and surfacing at the Mariposa Fitness Station is worn down and damaged. The current state of the equipment and surfacing causes unnecessary maintenance and care that new equipment and surfacing would eliminate.

The new surfacing is safest and most economical on the market right now. The maintenance is low and this type of surfacing is easier to repair. The current fitness station is made of wood and is worn down and requires constant maintenance. It is proposed to keep the same aspect of the body weight stationed fitness cluster style but to use powder coated steel frame and plastic benches to reduce maintenance.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 138,420	\$ -		\$ -	\$ -	\$ -	\$ 138,420
	TOTAL	\$ 138,420	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 138,420

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 17202E
Original Funding Year: 2016-17
General Plan Element Goals: CR-1

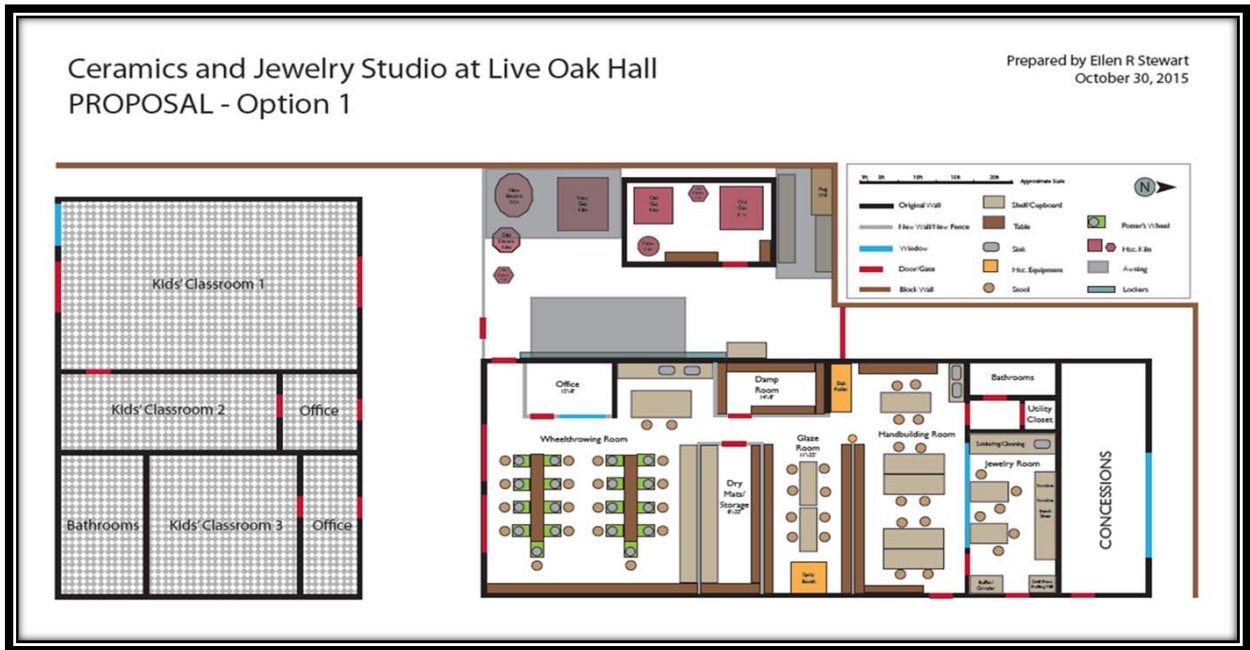
Project Title: Ceramics Studio Upgrades

Description: Move and expand the operational space of the Ceramics Studio from current location to Live Oak Hall at Live Oak Park. Add a Metalworking/Jewelry Lab space adjacent to the Ceramics Studio at Live Oak Hall. Fence off a designated outdoor area for kilns, lockers as well as outdoor workspace. Upgrade existing HVAC and electrical panel. Current Ceramics Studio will be retrofitted to accommodate children's classes and programming.

Justification: This expansion would provide additional classrooms for Ceramics and Jewelry classes that have outgrown the current facility. It will also free up the current Ceramics facility for use by the Kids' program, providing a space more conducive to children's programming, with easier access, HVAC system and fenced in outdoor play area.

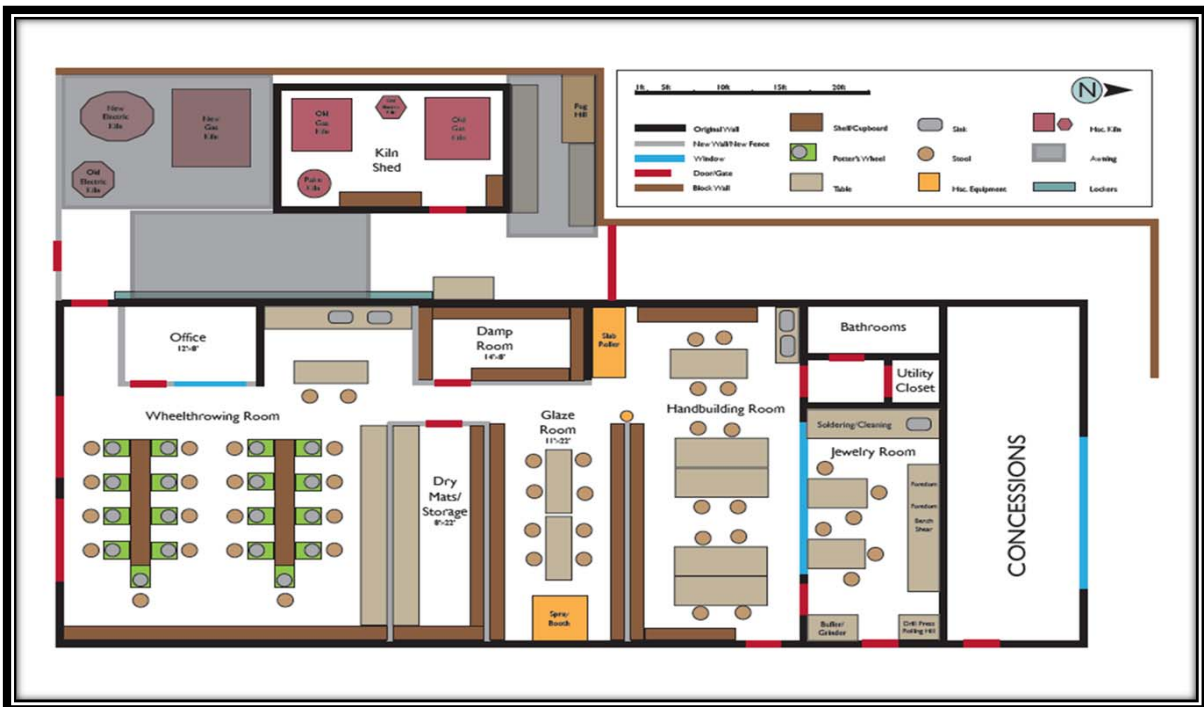
Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 259,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 259,500
	TOTAL	\$ 259,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 259,500

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Project Title: Ceramics Studio Upgrades



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 15829E
Original Funding Year: 2014-15
General Plan Element Goals: LU-3, LU-3.1

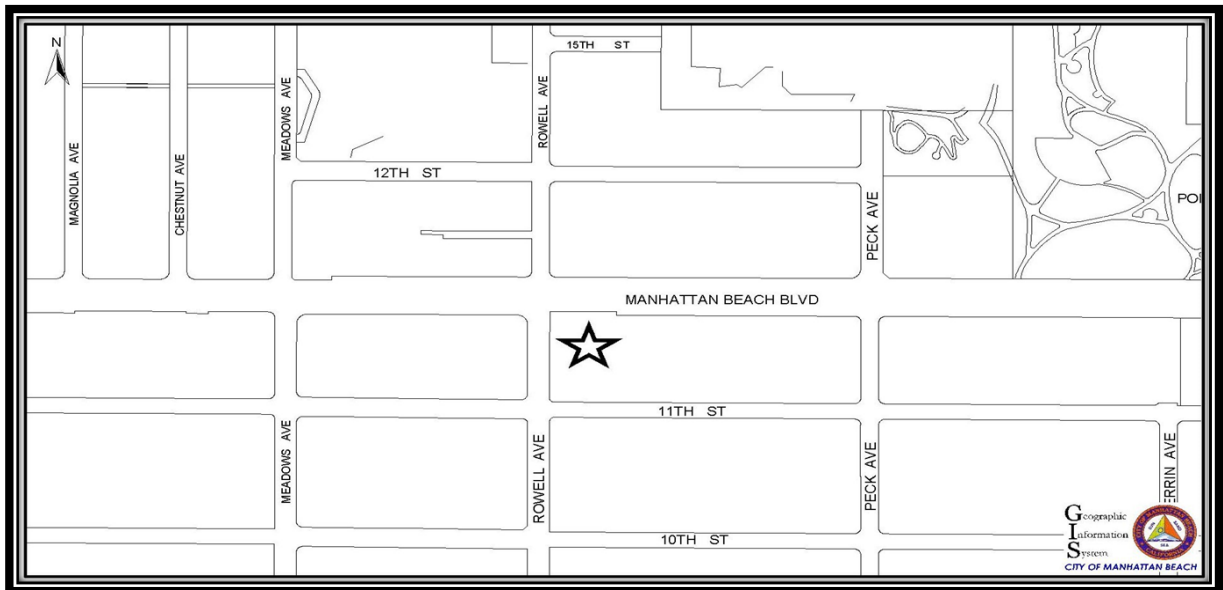
Project Title: Fire Station 2 Design Development

Description: Develop and design and perform site analysis for rebuild of Fire Station 2, located at 1400 Manhattan Beach Blvd., and construct improvements for immediate needs.

Justification: The current facility was built in 1954. It is not seismically retrofitted, nor does it meet all standards of an essential facility, including accommodations for female firefighters. This project would provide the City Council with options regarding possible locations of a new fire station and, if authorized, would proceed into a design development phase for a new station. In the interim, the proposed budget includes \$30,000 to fund critically important improvements to the existing station to improve operational efficiencies.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 442,762	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 442,762
	TOTAL	\$ 442,762	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 442,762

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 20205E
Original Funding Year: 2019-20
General Plan Element Goals: LU-3, LU-3.1, CR-1

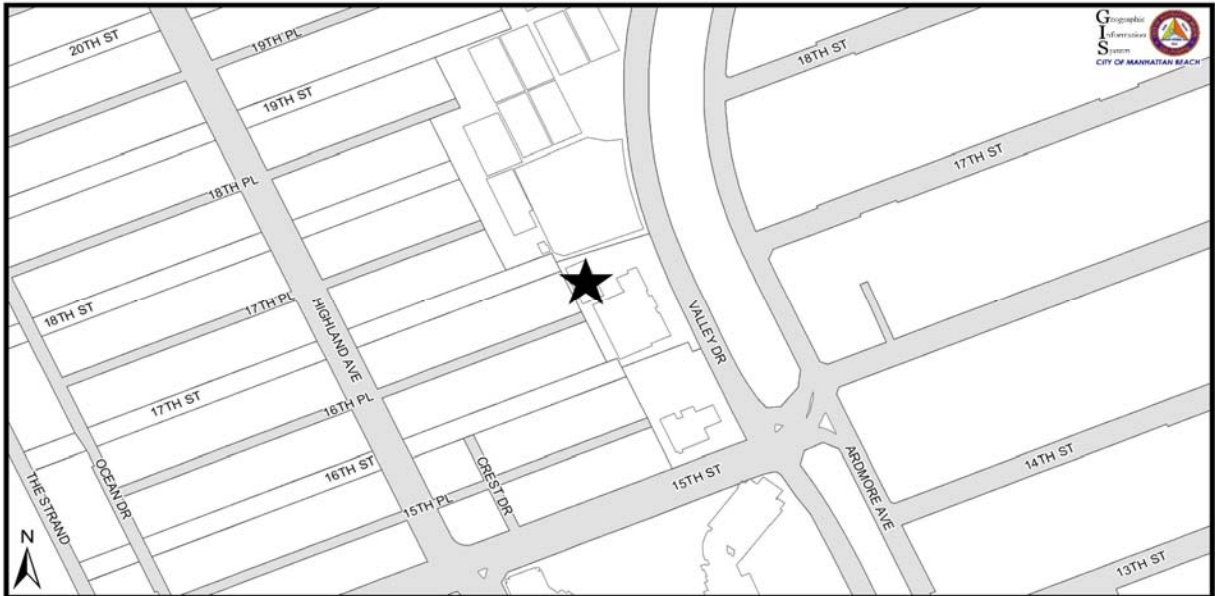
Project Title: Senior and Scout House

Description: Develop, design and construct a new Senior and Scout House in its current location.

Justification: Scouts and Seniors Community Center was originally constructed in the 1950s by the Boy Scouts and later donated to the city of Manhattan Beach. Through a partnership with the Friends of Senior & Scout Community Center (Friends), the City would construct the shell of the building as a public project and the Friends would complete the interior tenant improvements.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
	TOTAL	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 16212E
Original Funding Year: 2015-16
General Plan Element Goals: LU-5

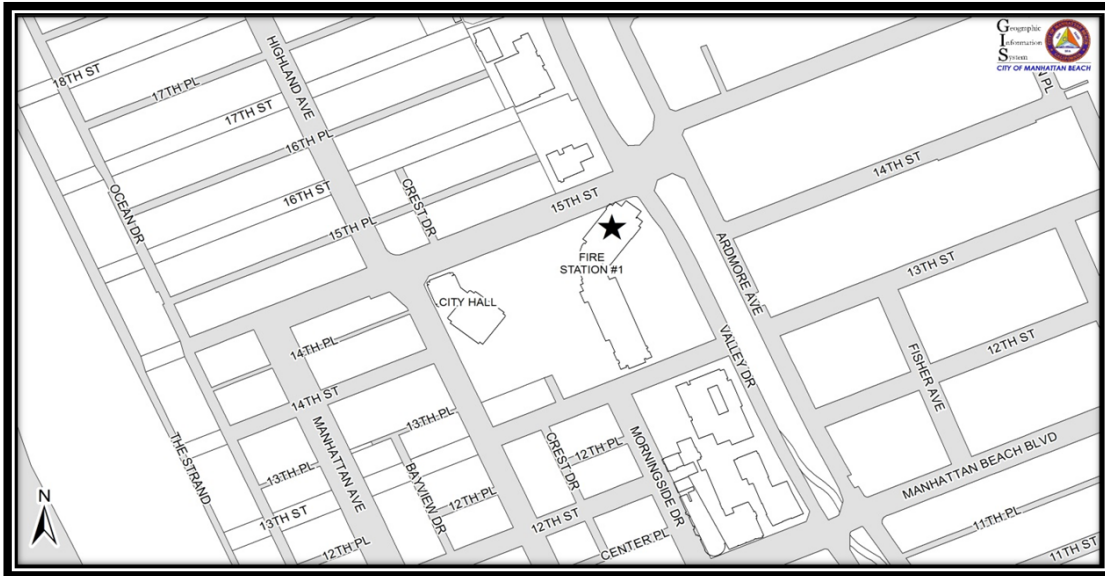
Project Title: Replacement and Upgrade of Fire Station 1 Diesel Exhaust Removal System

Description: Replacement of the aging fire apparatus diesel exhaust removal system.

Justification: The current exhaust system relies on a negative pressure (pulls the exhaust out rather than pushes). The fan that moves the exhaust out of the station is aging and the bearings are creating additional noise. The exhaust motor is located on top of the Fire Station. Every time a fire vehicle is started the system turns on. This came be at 2:00 am during environmentally the quietest time in the downtown neighborhood. This noise carries throughout the surrounding space of the fire station. Neighbors initially complained, but have since learned to live with the noise. The new system will mitigate much of the sound by using two smaller fans located inside the fire station. The new fans will be shrouded to prevent echoing and newer bearings and mechanical technology will reduce environmental noise.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000
	TOTAL	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 16208E
Original Funding Year: 2015-16
General Plan Element Goals: CR-1

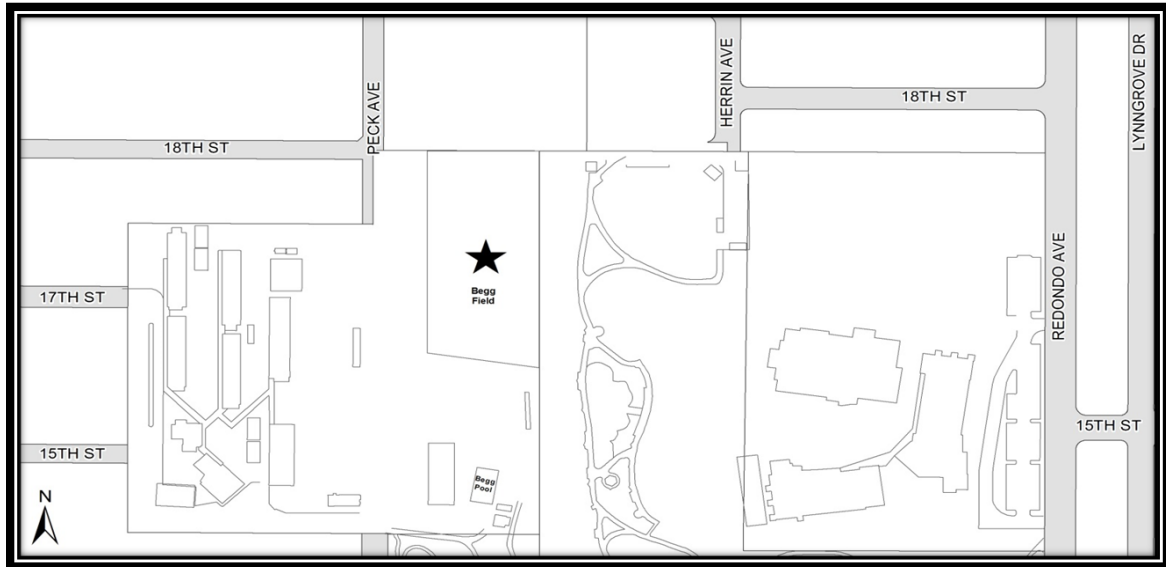
Project Title: Begg Field Improvements (Lighting, Fencing, etc.)

Description: Perform field improvements, install fence around turf and replace the light fixtures at Begg Field.

Justification: Over 5,000 AYSO, youth club and adult soccer participants play soccer annually in the City of Manhattan Beach. Synthetic turf will allow year round use to accommodate the communities needs and new lights will ensure the facility is safe, efficient and well light year-round.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
	TOTAL	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 20204E
Original Funding Year: 2019-20
General Plan Element Goals: CR-3

Project Title: School District Project - TBD

Description: The City will perform a CIP project for in partnership with the Manhattan Beach Unified School District. The exact project scope and location will be determined.

Justification: The City of Manhattan Beach, in line with General Plan Element Goal CR-3, strives to "maintain relationships with educational institutions, as they represent a cornerstone of the community's foundation."

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000
	TOTAL	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Location Map:

No map; location to be determined

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: Not yet assigned
Original Funding Year: 2019-20
General Plan Element Goals: CR-1, CR-2

Project Title: Historic Documents Repository

Description: Design a historic documents repository.

Justification: A location where historic documents can be safely and properly stored and protected is needed. The project will determine to house the historic documents and provide a design for the repository.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000
	TOTAL	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

Location Map:

No map; location to be determined

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 15845E
Original Funding Year: 2014-15
General Plan Element Goals: LU-3, I-12, CS-1

Project Title: City-Owned Refuse Enclosure Sewer Connections (annual)

Description: Improvements to be made to 18 city-owned refuse enclosures by connecting all enclosures to the sanitary sewer, rebuilding enclosures to a size appropriate for trash, recycling, and green waste cans or bins, painting and installing new hardware.

Justification: The city applied for illegal dumping grant funds to make these changes (our reasoning: enclosures that are not connected to the sanitary sewer pose a threat of debris and leachate (liquid trash) illegally dumping into the storm drain system), but the state did not believe that Manhattan Beach had a severe problem to warrant the grant funding.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000
	TOTAL	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 400,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund

Carryover Project #: 13822E

Original Funding Year: 2012-13

General Plan Element Goals: I-1, I-2

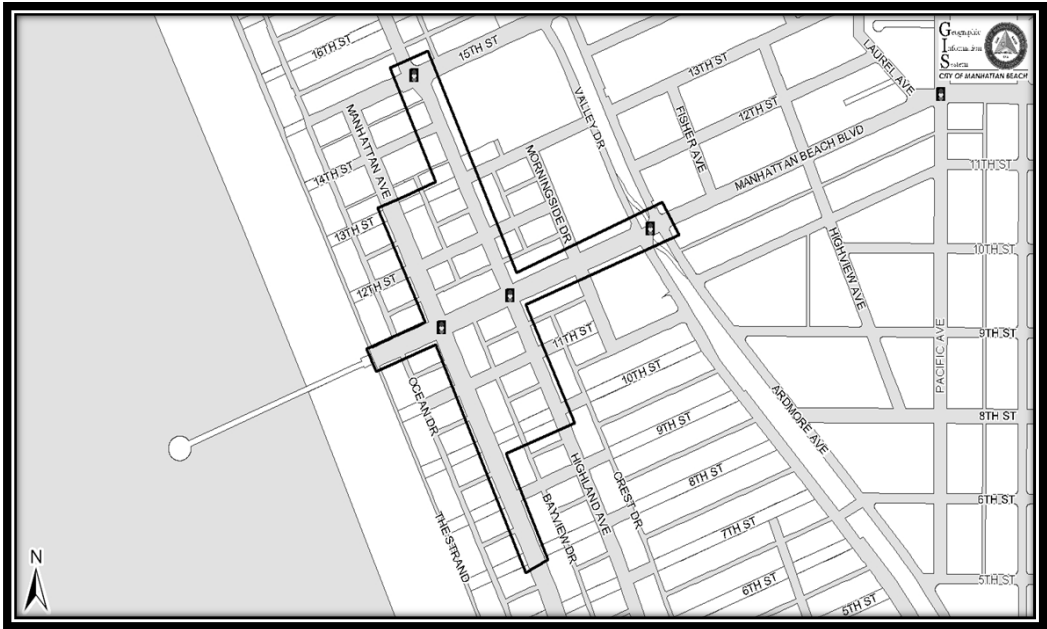
Project Title: Downtown Streetscape Improvements: Traffic Signal Pole Replacement

Description: Replacement of existing traffic signal poles and mast arms in the downtown area.

Justification: Existing traffic signal poles in the downtown area are deteriorated and require replacement.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 842,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 842,650
	TOTAL	\$ 842,650	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 842,650

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 17207E
Original Funding Year: 2016-17
General Plan Element Goals: I-1, I-2

Project Title: Traffic Signal Battery Back-Up Installation

Description: Determine signal locations without battery back-up and upgrade them with battery back-up installation.

Justification: To ensure reliability of all traffic signals during power outages, each signal should be equipped with a battery back-up to maintain safety and efficiency.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000
	TOTAL	\$ 110,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 110,000

Location Map:

No map; locations to be determined

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 16106E
Original Funding Year: 2015-16
General Plan Element Goals: I-1

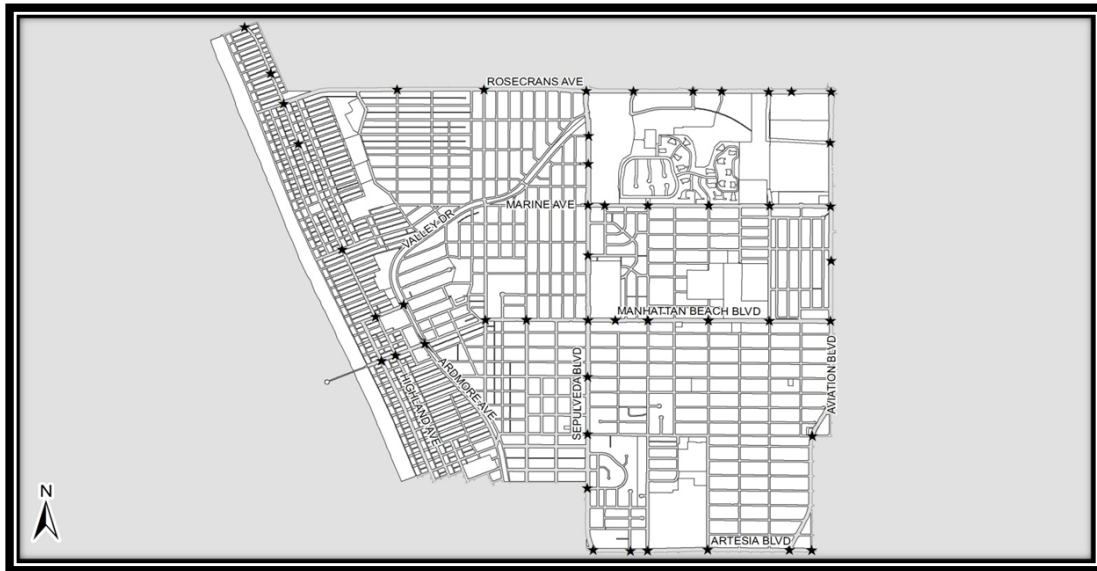
Project Title: Traffic Signal Preemption Devices

Description: This project will install traffic signal emergency vehicle preemption devices at all signal controlled intersections in the City.

Justification: Traffic sign preemption allows emergency vehicles responding to emergency calls to have better response times. Preemption will also improve traffic safety for the motoring public.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 158,282			\$ -	\$ -	\$ -	\$ 158,282
	TOTAL	\$ 158,282	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 158,282

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 15835E
Original Funding Year: 2014-15
General Plan Element Goals: I-6

Project Title: Annual Non-Motorized Transportation Program (Bike Lanes, Crosswalks, Etc.)

Description: Provision of features to enhance non-motorized modes of transportation such as walking and biking.

Justification: This project would provide an annual account from which pedestrian and bicycle enhancements could be funded. Improvements such as high visibility pedestrian crossings, bike lanes, pedestrian and bicycle related traffic calming measures and other bicycle and pedestrian amenities would be funded through this project. Specific projects to be pursued include ones identified in the South Bay Bicycle Master Plan.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 107,715	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 157,715
	TOTAL	\$ 107,715	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 157,715

Location Map:

Various locations; citywide

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund
Carryover Project #: 20206E
Original Funding Year: 2019-20
General Plan Element Goals: I-1, I-2, CS-3, CS-4

Project Title: Automatic License Plate Reader - Sepulveda Blvd. Pole (only)

Description: Installation of a pole at the intersection of Rosecrans Ave. and Sepulveda Blvd. which will be used to install an Automatic License Plate Reader on the pole.

Other locations anticipated for the readers, which are outside the scope of the CIP because the Fixed License Plate Readers can be installed on existing signal poles, are at northbound 45th St. at Highland Ave. and the intersection of Valley Dr. and Manhattan Beach Blvd.

Justification: License plate readers were installed in Manhattan Beach in 2017, and the Police Department has advised that the license plate readers have proven to be effective tools to catch wanted criminals entering Manhattan Beach, as well as provide investigative leads for crimes.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CIP Fund	\$ 149,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,898
	TOTAL	\$ 149,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 149,898

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Prop A and CIP
Carryover Project #: 20201E
Original Funding Year: 2019-20
General Plan Element Goals: CR-1

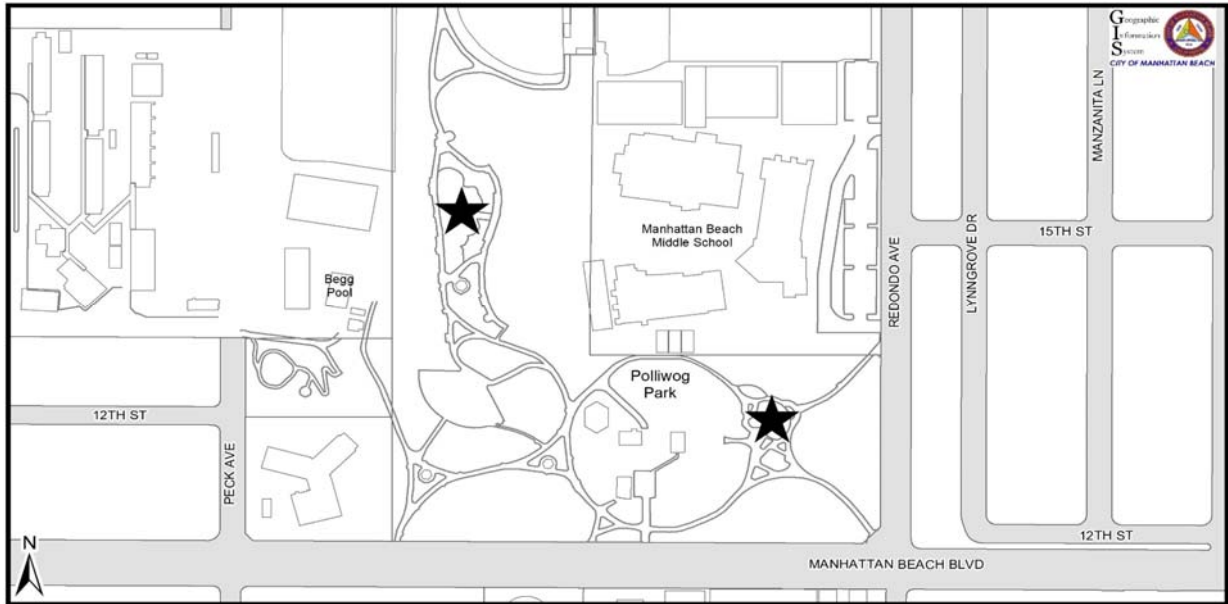
Project Title: Polliwog Playground Resurfacing & Equipment Replacement (Prop A/CIP)

Description: Resurface both playground areas and replace the lower Polliwog playground equipment at Polliwog Park.

Justification: The existing surface area in both playground areas and the lower Polliwog playground equipment at Polliwog Park has reached its useful life and must be resurfaced/replaced.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Prop A/CIP	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
	TOTAL	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Public Art Trust Fund
Carryover Project #: 20202E
Original Funding Year: 2019-20
General Plan Element Goals: CR-2

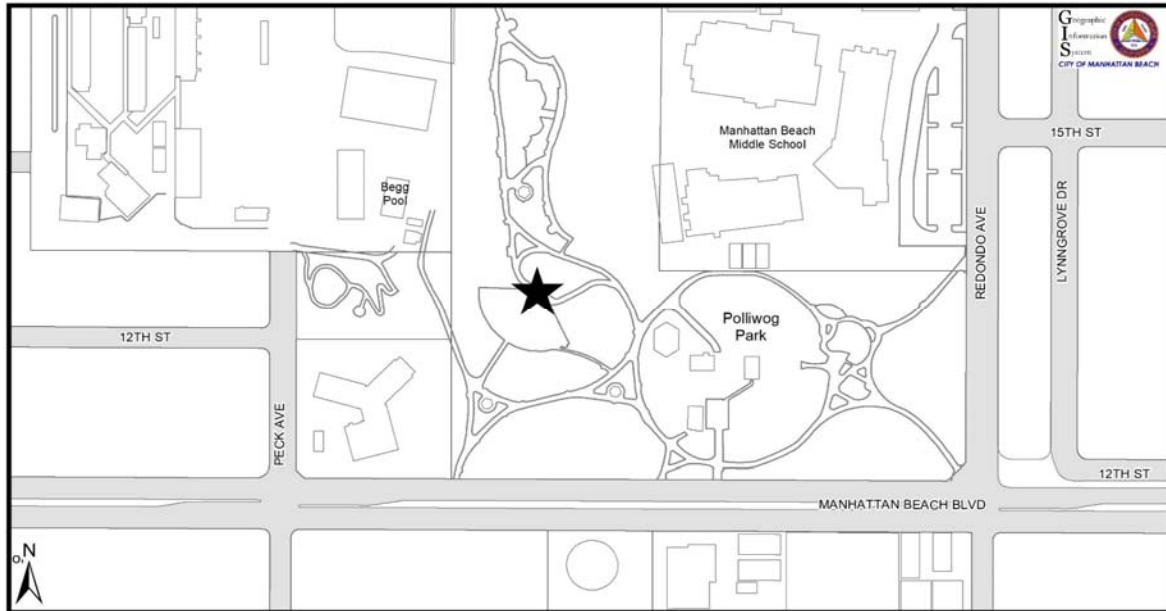
Project Title: Polliwog Band Stage (Public Art Trust Fund)

Description: Construct a permanent band stage in the amphitheater area of Polliwog Park with art elements.

Justification: The current use of the City's 20+ year old "bandshell" for Concerts in the Parks requires extensive set up, electrical and tear down with each use. Constructing a permanent band stage in the amphitheater area would conserve City resources and allow for a more efficient set up/tear down during Concerts in the Park.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Public Art Trust Fund	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000
	TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Grant Funded CDBG

Carryover Project #: 15834E

Original Funding Year: 2018-19

General Plan Element Goals: LU-3, LU-4, I-1, I-6, HE-3, CR-1 & CS-1

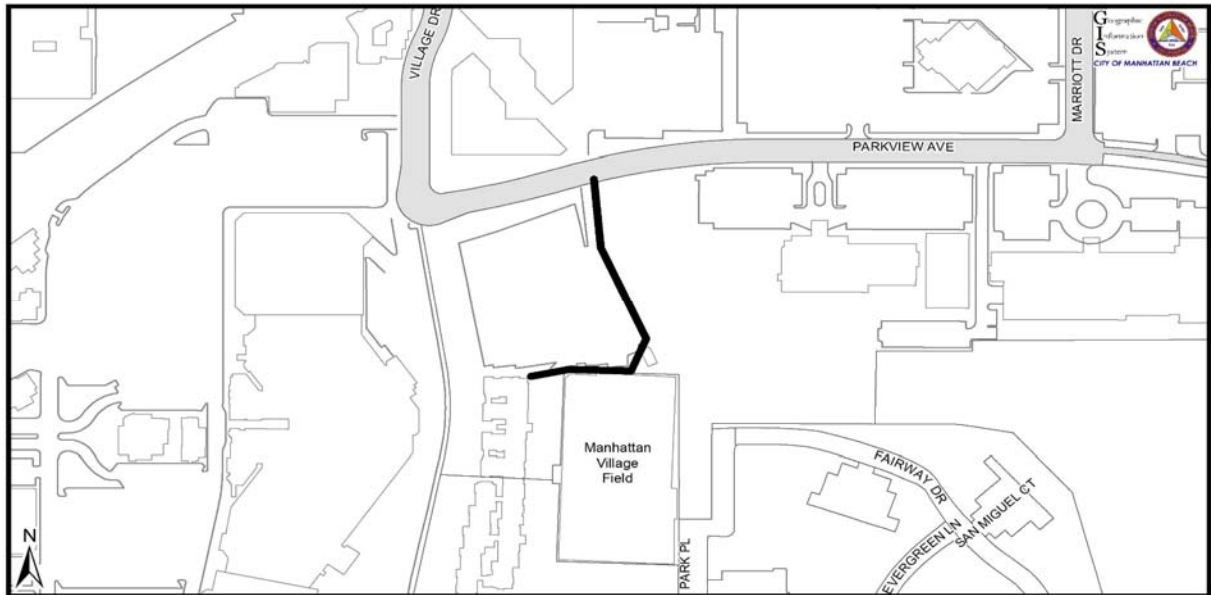
Project Title: Village Field Access Ramp: Construction (CDBG Funds)

Description: Installing ADA pathway/access ramp to connect pedestrian walkways on Parkview Avenue to the Manhattan Beach Village Field and Senior Villas.

Justification: The existing driveway to the Manhattan Beach Village Field, Senior Villas and City Public Park currently lacks an ADA accessible pedestrian pathway connecting to the public street sidewalk on Parkview Ave. This project will construct an ADA compliant pathway connecting the Village Field, Senior Villas and the City Public Park to the public sidewalk located on Parkview Ave.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	CDBG Funds	\$ 300,000			\$ -	\$ -	\$ -	\$ 300,000
	TOTAL	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Grant Funded CDBG
Carryover Project #: N/A
Original Funding Year: N/A
General Plan Element Goals: I-1, I-6

Project Title: Annual ADA Improvements Program (CDBG Funds)

Description: Construct concrete access ramps at various locations throughout the City. These ongoing projects are not new, but the title is new as of the 2019-2020 CIP.

Justification: The Community Development Block Grant (CDBG) Program provides for the development of viable urban communities by providing decent housing, a suitable living environment, and expanded economic opportunities primarily for persons of low and moderate income. Eligible activities under the CDBG Program include activities related to housing, other real property activities (code enforcement, historic preservation), public facilities, activities related to public services, activities related to economic development, and assistance with community based development organizations. CDBG funds may be used for the acquisition, construction, reconstruction, rehabilitation, or installation of public improvements or public facilities. Public Improvements includes, but is not limited to, streets, sidewalks, water and sewer lines, and parks.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL						
	CDBG		\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	400,000		
	TOTAL		\$	-	\$	-	\$	100,000	\$	100,000	\$	100,000	\$	400,000

Location Map:

No map; Citywide

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: CIP Fund

Carryover Project #: 17204E

Original Funding Year: 2016-17

General Plan Element Goals: I-4

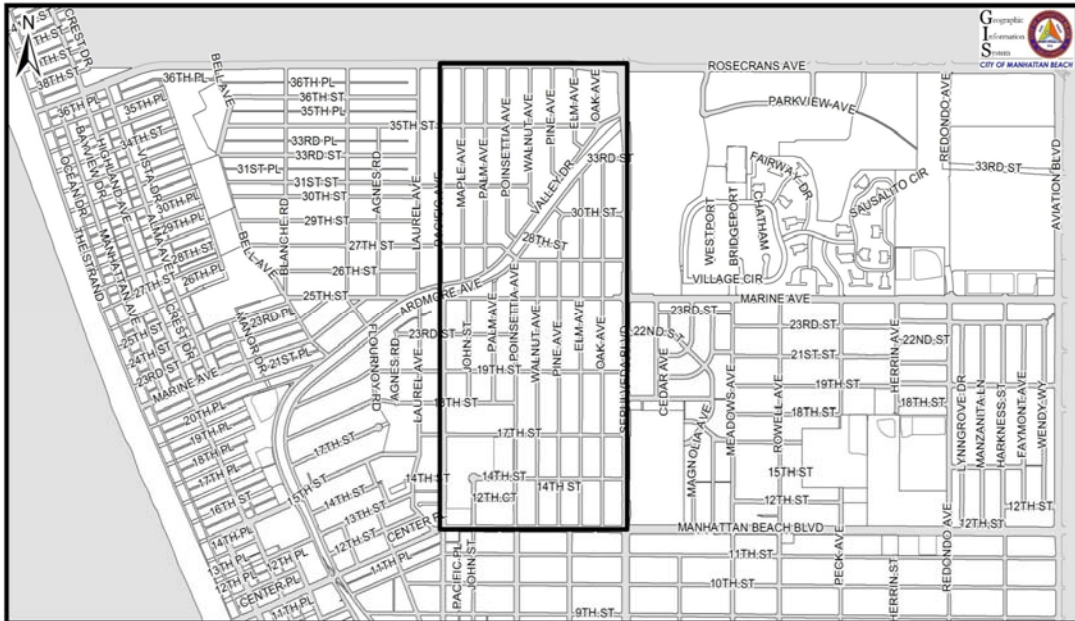
Project Title: Sepulveda Blvd./Oak Ave. Neighborhood Intrusion Study (Manhattan Village Mall)

Description: Conduct a traffic management study to evaluate existing and future traffic intrusion in the neighborhood west of Sepulveda Boulevard between Rosecrans Avenue and Manhattan Beach Boulevard.

Justification: The study will follow the City's Neighborhood Traffic Management Program guidelines, including data collection, resident workshops, identification of possible measures, analysis, public review and approval. The study was requested by residents and City Council during the Manhattan Village Shopping Center development approval process.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
MV Mall		\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
TOTAL		\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 16302E
Original Funding Year: 2015-16
General Plan Element Goals: I-7

Project Title: Annual Pipe Replacement Program

Description: Improvement of the Pacific Avenue Sewage Lift Station and installation of a second force main. The Water Masterplan lays out the areas for replacement/installation.

Justification: The existing water mains to be replaced are mostly 4" cast iron mains more than 60 years old. Increasing to 6" mains or larger would provide adequate fire flows in the area.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 379,080	\$ -	\$ 2,500,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 11,879,080
	TOTAL	\$ 379,080	\$ -	\$ 2,500,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 11,879,080

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 17302E
Original Funding Year: 2016-17
General Plan Element Goals: I-7

Project Title: Water Meter Upgrade and Automation

Description: Labor and materials to retrofit and upgrade the City's 13,300 water meters with radio meters and radio registers; install field radio reading infrastructure; install needed computer hardware and software.

Justification: Will help the City streamline the water and wastewater billing process, including reducing the labor necessary to read traditional water meters. Will give the City real-time data to better serve customers and give them the information they need to conserve water, thereby lowering their water bills. Customers can also view their own consumption and water loss patterns on a 24/7 basis. It will also help City substantially decrease non-revenue water by detecting water loss in the distribution network

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 5,321,040		\$ -				\$ 5,321,040
	TOTAL	\$ 5,321,040	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,321,040

Location Map:

No map; Citywide

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund

Carryover Project #: 18301E

Original Funding Year: 2017-18

General Plan Element Goals: I-7

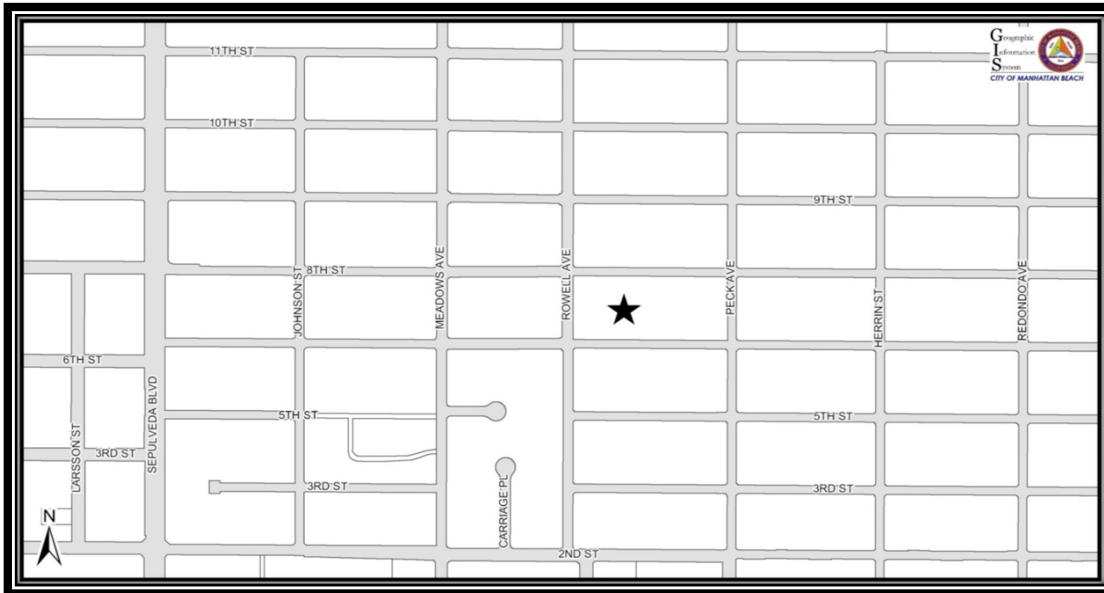
Project Title: Block 35 Ground Level Reservoir Replacement (Design Only)

Description: Prepare the design portion only of a potential new, larger capacity water reservoir at Block 35.

Justification: Block 35 Ground Level Reservoir (2 mg) was originally constructed in 1948. It has an inner wall with 69.17 ft. diameter, and an outer wall with 140 ft. diameter. The inner wall top is at elevation 182.8 feet, while the outer wall top is at elevation 191.58 feet. The overflow elevation is at 190 feet. Due to leakage at the wall/floor joint at high water levels, the reservoir is operated at half full level. This is the facility where most of the blending takes place, and from where water is pumped into the system. Therefore, its blending takes place, and from where water is pumped into the system. Therefore, its integrity is essential for proper operation of the system. It is at the end of its useful life, and should be replaced with a new, larger reservoir. The appropriate size of the new water reservoir will be determined at the pre-design state.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	\$ -		\$ 1,200,000			\$ 1,200,000
	TOTAL	\$ -	\$ -	\$ -	\$ 1,200,000	\$ -	\$ -	\$ 1,200,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 15838E
Original Funding Year: 2014-15
General Plan Element Goals: CS-1.3, I-7

Project Title: Chloramination System at Wells 11 & 15

Description: 1. Engineering study related to the water distribution system disinfectant residual stability and feasibility of converting from chlorine to chloramine disinfection;
 2. Construction of building at Well 11 to house liquid sodium hypochlorite and chemical feed/analytical equipment. The construction of the building at Well 15 is part of the "Redrill and Equip Well 15" project.

Justification: The City's blending operations of mixing MWD chloraminated water with Manhattan Beach groundwater containing ammonia at Peck and Block 35 Reservoirs, then adding chlorine presents a challenge in achieving target disinfection residuals at the point of entry to the water distribution system. This project will allow the "contact time" between the injected sodium hypochlorite and naturally occurring ammonia from well water to take place in the transmission lines from the wells to the reservoirs, thus eliminating the challenges and risks noted above.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	\$ -	\$ -	\$ 300,000			\$ 300,000
	TOTAL	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ 300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 12828E
Original Funding Year: 2011-12
General Plan Element Goals: I-7

Project Title: Larsson Street and 2nd Street Booster Station Improvement

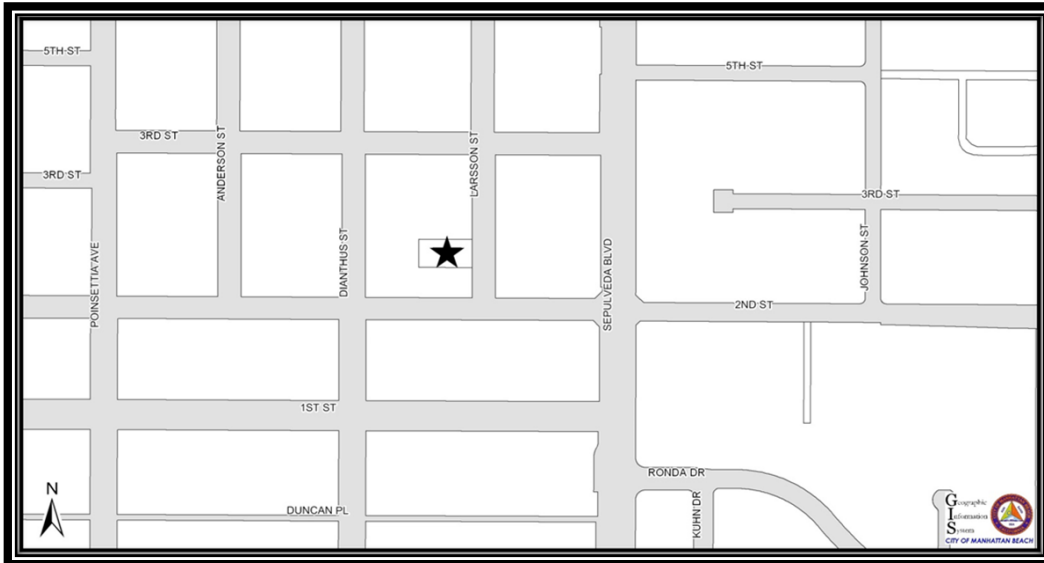
Description: Installation of new motors, pumps, variable speed drives, motor controls, control valves, relief valve, piping, wiring and new back-up generator.

Justification: Presently the Larsson Street Pump Station consists of three electric pumps with variable speed drives. At times, all three pumps are called to provide peak domestic service and on occasion, the 2nd Street Pump Station is also called to assist. Optimally, peak domestic service should be served by two of the three pumps at the station. This would allow one of the pumps to be taken out of service for maintenance without requiring the 2nd Street pump station to be called.

The Larsson project would provide three new pumps at the station such that two pumps should handle peak domestic service. Three new pumps and variable speed drives would be installed along with new motor controls, control valves, relief valve, piping, wiring, and a new back-up generator.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 648,941	\$ -	\$ 1,000,000				\$ 1,648,941
	TOTAL	\$ 648,941	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,648,941

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 15837E
Original Funding Year: 2014-15
General Plan Element Goals: I-7, LU-3, LU-4

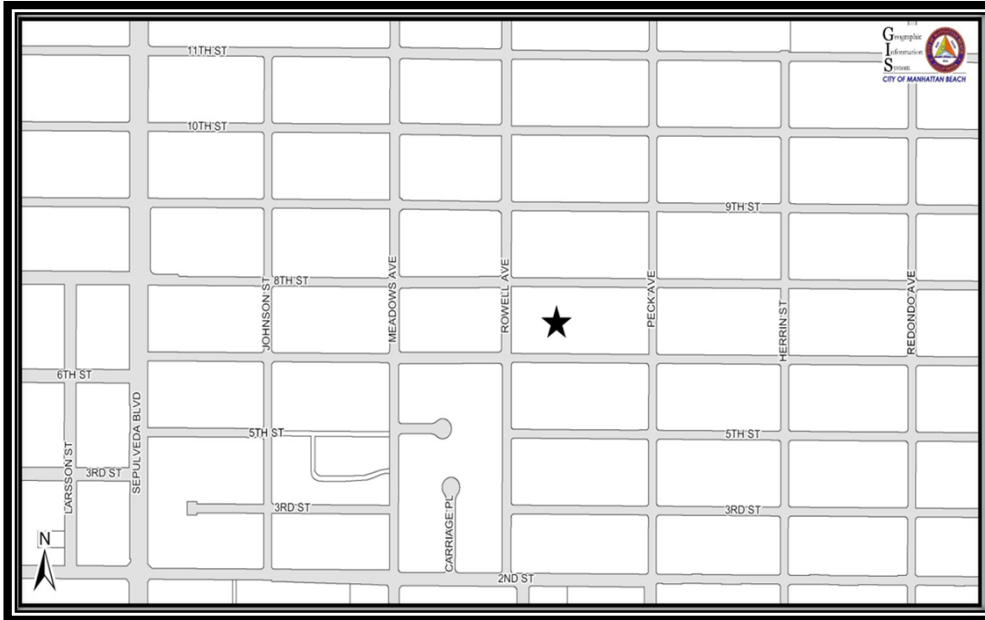
Project Title: Paint Block 35 Elevated Tank

Description: Strip and paint the exterior of the Block 35 Elevated Tank.

Justification: The Elevated Tank shows signs of severe rusting and paint deterioration. In order to preserve the tank's steel structure, it is imperative that the exterior surface be repainted and epoxied in order to keep metal corrosion under control.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 841,428	\$ 800,000	\$ -				\$ 1,641,428
	TOTAL	\$ 841,428	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ 1,641,428

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 15836E
Original Funding Year: 2014-15
General Plan Element Goals: CS-1.3, I-7

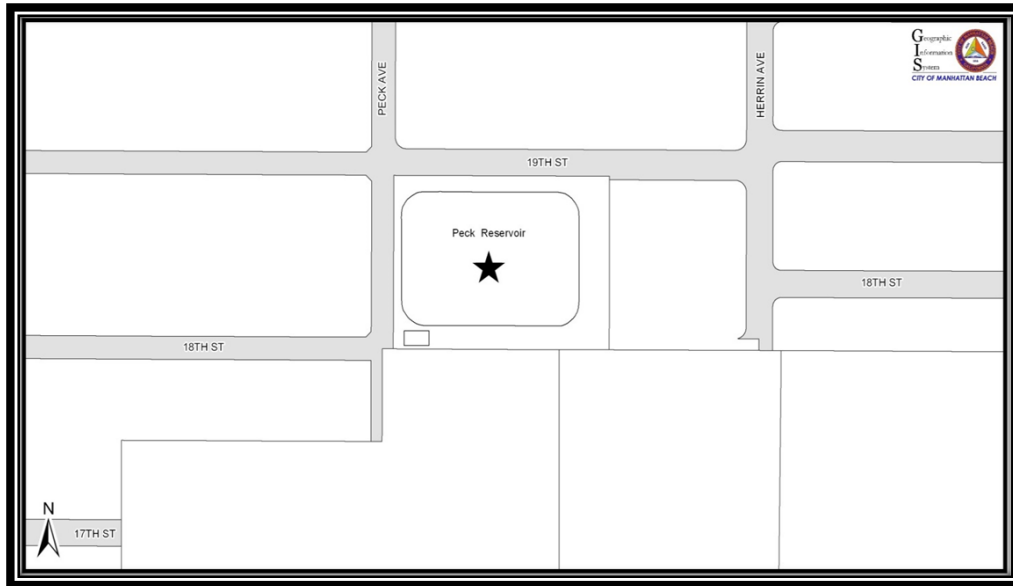
Project Title: Peck Ground Level Reservoir Replacement

Description: As recommended in the City's 2010 Water Master Plan, replace existing 7.5 million gallon with an estimated 8 million gallon reservoir. The project will also reconstruct the pump boost station.

Justification: Built in 1957, Peck Reservoir has exceeded its useful life. The metal roof has deteriorated beyond repair and the existing reservoir has no mechanical ventilation system to control condensation and temperature within the reservoir, which adversely impact the disinfection residual of stored water and metallic surfaces. Despite attempts to repair leaking concrete slopes and floor, the reservoir continues to leak and cannot be filled beyond 15 feet of the 20 feet of available storage.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 22,751,179	\$ 14,000,000					\$ 36,751,179
	TOTAL	\$ 22,751,179	\$ 14,000,000	\$ -	\$ -	\$ -	\$ -	\$ 36,751,179

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 17301E
Original Funding Year: 2016-17
General Plan Element Goals: I-7

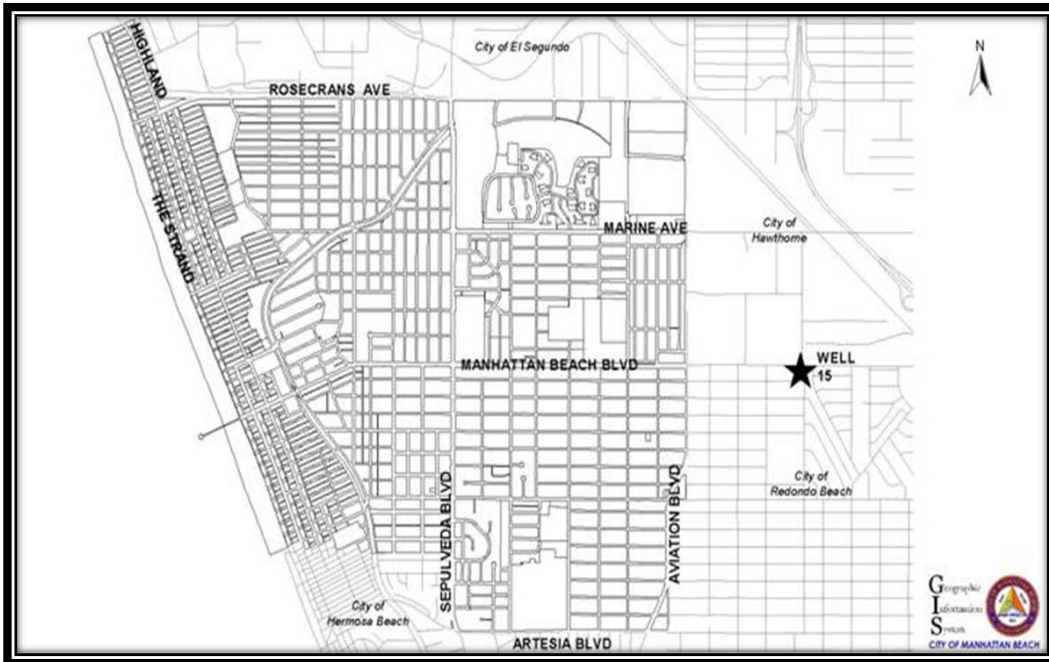
Project Title: Redrill & Equip Well 15

Description: Redrill and equip Well No. 15. This project will also include the construction of a building at Well 15 to house liquid sodium hypochlorite and chemical feed/analytical equipment.

Justification: The uncertainty of the water quality due to saltwater intrusion at the planned Well 13 site presents a high risk of building costly water treatment facilities well in excess of the budgeted amount. Accordingly, Public Works has decided to re-drill and equip Well 15 in lieu of Well 13. The new well will be designed and built to produce 2,200 gpm. Combined with the 2,200 gpm produced by Well No. 11, the City will have a guaranteed source of supply equal to 4,400 gpm, which will surpass the City's average day demand of 3,940 gpm, and position the City to meet demand in the event of an MWD outage.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	\$ -			\$ 650,000		\$ 650,000
	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 650,000	\$ -	\$ 650,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Water (w/ wastewater)
Carryover Project #: 11834E (Water) and 11838E (WW)
Original Funding Year: 2010-11
General Plan Element Goals: I-7, I-11

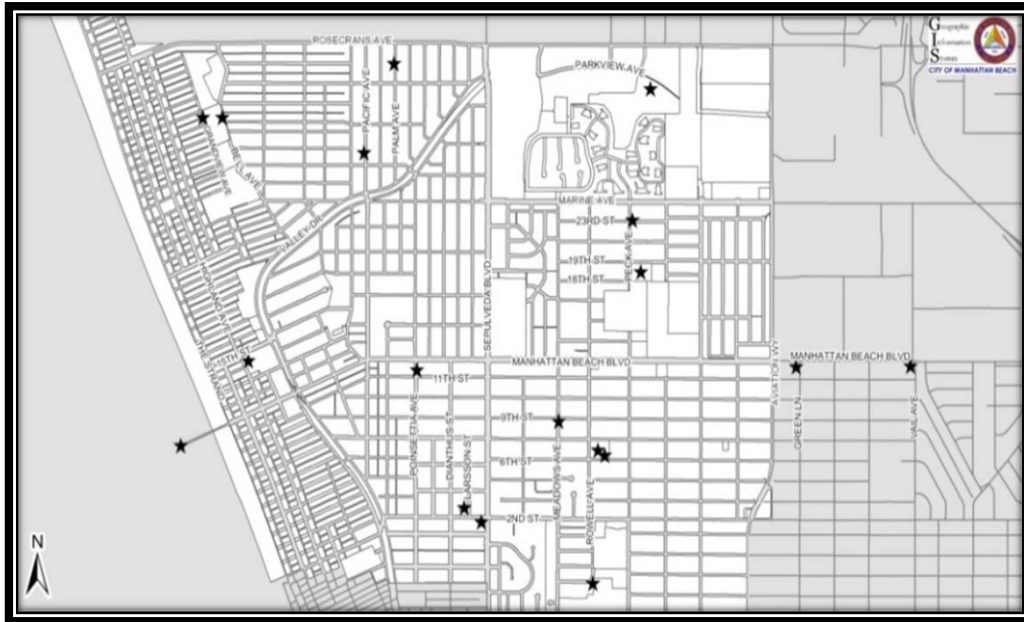
Project Title: Utility Telemetry

Description: Install radio communications to 21 existing water and wastewater stations at the Public Works Maintenance Facility.

Justification: The City monitors the function of 21 critical water and sewer facilities on a continuous basis. Presently, telephone is the only communication mode and there is no back-up system. Redundant communication is critical to assure the function of critical water and sewer facilities. This project establishes a new radio and potential fiber optic communication system installation while maintaining the current telephone system for redundancy.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	-	-	\$ 215,395	-	-	\$ 215,395
	TOTAL	\$ -	-	-	\$ 215,395	-	-	\$ 215,395

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 19301E
Original Funding Year: 2018-19
General Plan Element Goals: LU-3, LU-4, I-7, HE-3, & CS-1

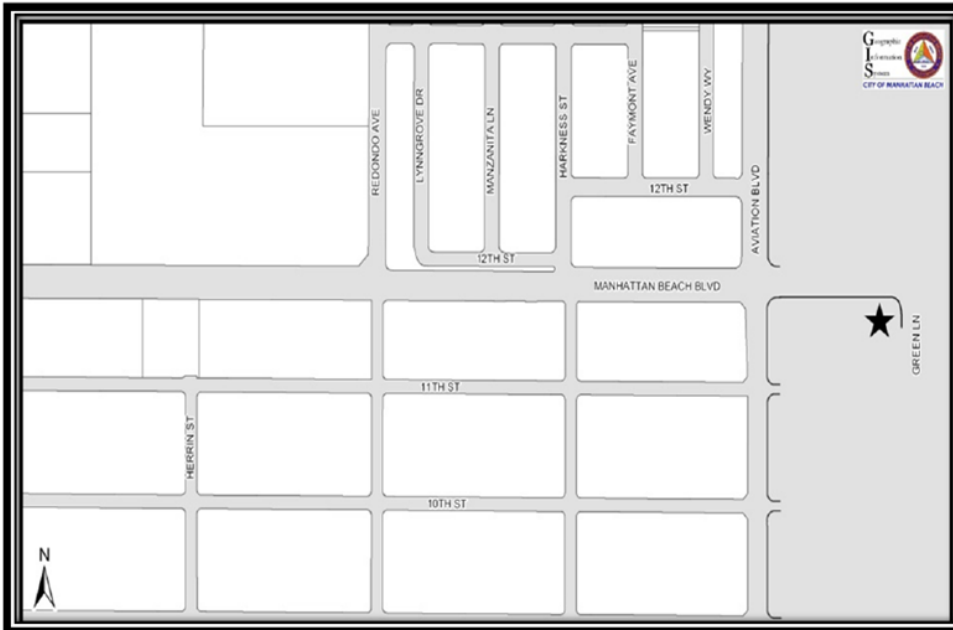
Project Title: Well 11A Variable Frequency Drive Installation

Description: Retrofit existing Well 11A water pumping system to incorporate VFD installation.

Justification: Well 11A VFD Installation will allow water operations additional flexibility with blending well (ground) water and MWD water to keep water quality consistent in the distribution system.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	-	-	-	\$ 125,000	-	\$ 125,000
	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 125,000	\$ -	\$ 125,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 19302E
Original Funding Year: 2018-19
General Plan Element Goals: LU-3, LU-4, I-7, HE-3, & CS-1

Project Title: Well 15 Electrical Panel Replacement and Variable Frequency Drive (VFD) Installation

Description: Retrofit existing Well 15 water pumping system to incorporate VFD and replace electrical panel.

Justification: The current electrical panel at Well 15 has aged and deteriorated due to exposure to the elements and needs replacement. Additionally, installation of a Variable Frequency Drive (VFD) will allow water operations additional flexibility with blending well (ground) water and MWD water to keep water quality consistent in the distribution system.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -			\$ -	\$ 300,000		\$ 300,000
	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ -	\$ 300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: N/A
Original Funding Year: N/A
General Plan Element Goals: I-7, I-11

Project Title: Water Masterplan Update

Description: Last updated in 2010, the masterplan is a guidance document for the water department's infrastructure and operations, and an update to the water system hydraulic model.

Justification: This update comes in the heels of major improvements to the water system and the need to revisit and readjust plans for improvements for the next 10 years based on demands and condition of the important aging infrastructure.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	\$ 300,000	\$ -			\$ -	\$ 300,000
	TOTAL	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Location Map:

No map; plan update

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund
Carryover Project #: 20301E
Original Funding Year: 2019-20
General Plan Element Goals: I-7, I-11

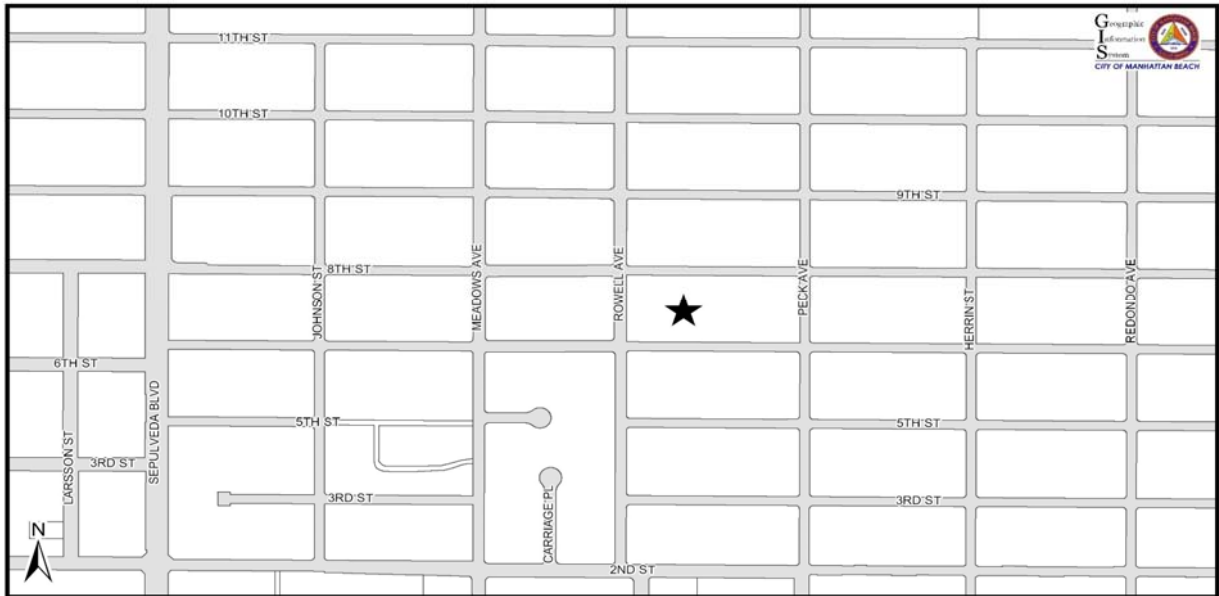
Project Title: Electronics Automation (SCADA)

Description: Automation of water supply equipment and replacement of communications equipment.

Justification: Adjustments to the water supply equipment are currently performed manually. Automation will allow the same excellent water quality expected by the community without manual adjustments. The communications equipment must be replaced for compatibility with the water supply equipment.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ 200,000	\$ -	\$ -			\$ -	\$ 200,000
	TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Water Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-7

Project Title: Generator Upgrades at Larsson, Well 15 and Block 35

Description: Replace existing generators with new and more efficient models at the Larsson, Well 15 and Block 35.

Justification: The current generators are almost 20 years old and in need of replacement.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Water Fund	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ 500,000
	TOTAL	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ -	\$ -	\$ 500,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund

Carryover Project #: 16401E

Original Funding Year: 2015-16

General Plan Element Goals: I-9, I-12

Project Title: Storm Drain Capital BMPs (Best Management Practices)

Description: Installation of storm drain debris collection devices to prevent trash from entering storm drain pipes.

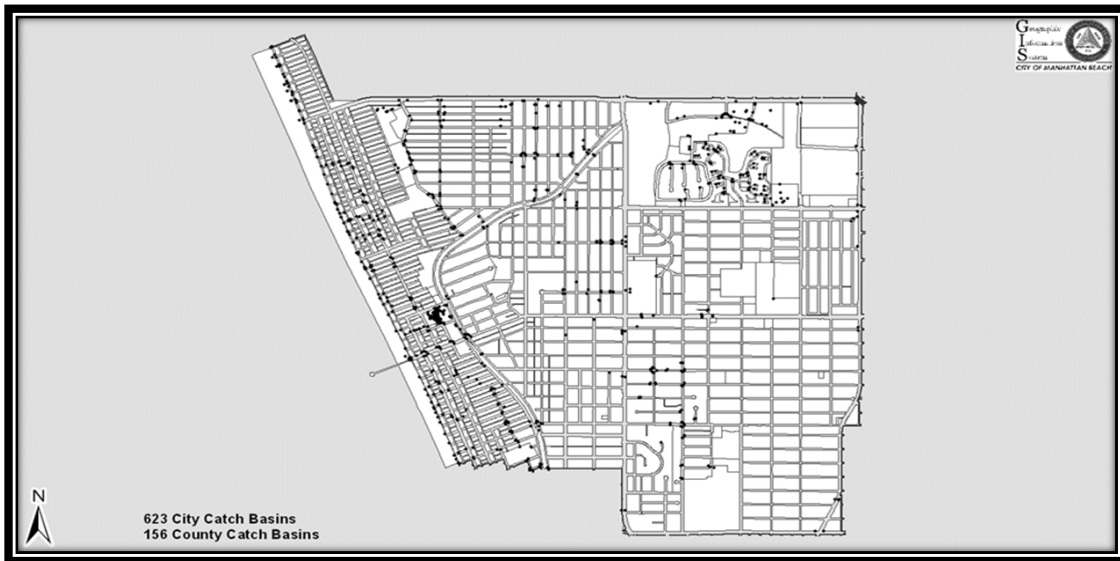
Justification: The National Pollutant Discharge Elimination System (NPDES) permit was reissued in winter 2012. This permit includes Total Maximum Daily Load (TMDL) requirements related to trash. The permit requires the installation of trash removal devices on all catch basins in the City. The Trash TMDL requires flows from a 1year/1hour design storm to be filtered through 5mm orifices. The typical insert installation consists of a connector pipe screen (CPS) installed across the outlet pipe and an automatic retractable screen (ARS) along the curb opening. The CPS possesses 5mm holes and is the device required to meet the Trash TMDL requirement. The ARS is normally closed and opens when storm flows enter the catch basin. The ARS keeps gross solids out during dry periods and reduces the build-up of debris inside the basin.

It is expected that the implementation requirement will be as follows:

- a. Install first 20% of full capture systems within 4 years of the effective date of TMDL
- b. Install next 20% of full capture systems within 5 years from effective date, and 20% more each year until 100% have been installed within 8 years of effective date

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ -	\$ 710,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 1,550,000
	TOTAL	\$ -	\$ 710,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 210,000	\$ 1,550,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund
Carryover Project #: Not yet assigned
Original Funding Year:
General Plan Element Goals: I-9

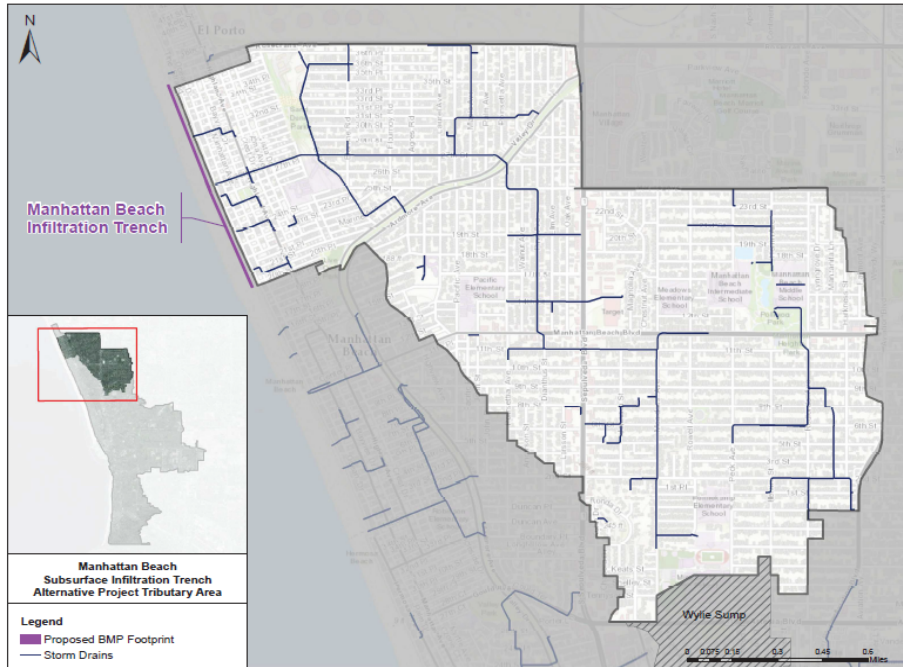
Project Title: Strand Infiltration Feasibility Study

Description: Install infiltration trenches and equip with both storage and drainage components. The BMP will consist of pretreatment leading to an infiltration trench. Dry and wet weather flows from the 28th St. (and the Strand) storm drain will enter the forebay and trash nets for pretreatment and then flow into a series of 16 parallel perforated pipes extending laterally from both sides of the forebay. The perforated pipes will be laid amongst a bed and fill of gravel to enhance storage prior to infiltration into native soils. When persistent flows fill the system to storage capacity, additional runoff will overflow from the forebay via an overflow chute and re-enter the existing drainage system. The project is expected to incorporate Bruce's Beach and Polliwog at some juncture.

Justification: Infiltration trenches remove pollutants from stormwater network by infiltrating stormwater into the native soil beneath the system.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
	TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund

Carryover Project #: 15842E

Original Funding Year: 2014-15

General Plan Element Goals: I-9

Project Title: Storm Drain Repairs

Description: Replace various sections of stormwater drain line.

Justification: Video inspection and analysis of the storm drain lines identified in this CIP revealed structural and operational condition assessment Defect Codes of Grade 5 - Defect Requiring Immediate Attention. The methodologies for the Defect Code categories were established by the National Association of Sewer Service Companies Pipeline Assessment and Certification Program. Severity of Defect Codes increases from 1 to 5.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ 924,798	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 3,424,798
	TOTAL	\$ 924,798	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 3,424,798

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund

Carryover Project #: 20401E

Original Funding Year: 2019-20

General Plan Element Goals: I-9

Project Title: CCTV Storm Drain System

Description: Use CCTV to perform an assessment of the City's storm drain system

Justification: CCTV is used to provide video of storm drain systems so that cities can prioritize repairs and replacements.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000
	TOTAL	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund
Carryover Project #: 18401E
Original Funding Year: 2017-18
General Plan Element Goals: i-9

Project Title: Stormwater Masterplan Update

Description: Last updated in 1996, the proposed update to the masterplan will identify capacity deficiencies and need for future storm drains based on the latest design criteria established by the County.

Justification: The City's current stormwater masterplan was last updated 21 years ago. Since that time, the City has undergone dramatic redevelopment of residential properties, which in turn has affected both drainage patterns and the volume of runoff generated to the storm drain system. An evaluation of storm drain capacity and identification of which pipes need to be upgraded is needed to better protect the community from flooding.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ 250,000		\$ -	\$ -	\$ -	\$ -	\$ 250,000
	TOTAL	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000

Location Map:

No map; plan update

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Stormwater Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-9

Project Title: Joint Watershed Infiltration Project

Description: Construct a regional stormwater capture and infiltration system.

Justification: This regional project is required as part of the NPDES permit. The funds are required as the city's match for the grant received. Total project cost is approximately \$6 million, and Manhattan Beach's required portion to contribute toward the project is \$500,000.

The system will be installed in a location to be determined; however, due to our watershed our storm water flows into a portion of Hermosa Beach.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Stormwater Fund	\$ -	\$ 500,000	\$ -		\$ -	\$ -	\$ 500,000
	TOTAL	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Location

Map:

No map; along Hermosa Beach's Greenbelt only

**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: 17501E (includes 15844E and 16501E)

Original Funding Year: Ongoing

General Plan Element Goals: I-8

Project Title: Annual Rehabilitation of Gravity Sewer Mains

Description: Rehabilitation or Replacement of Gravity Sewer Mains annually throughout the city.

Justification: The locations for rehabilitation or replacement have been identified by maintenance staff and through CCTV (Closed Circuit Television) inspection. It is critical to maintain the quality and dependability of the city's sewer infrastructure through a routine preventative maintenance process.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ 2,560,652	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,500,000	\$ 1,500,000	\$ 8,860,652
	TOTAL	\$ 2,560,652	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,500,000	\$ 1,500,000	\$ 8,860,652

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund
Carryover Project #: 15843E
Original Funding Year: 2014-15
General Plan Element Goals: I-8

Project Title: Poinsettia Sewage Lift Station Replacement and Force Main Replacement

Description: Reconstruction/modification of the Poinsettia Sewage Lift Station and installation of a second force main.

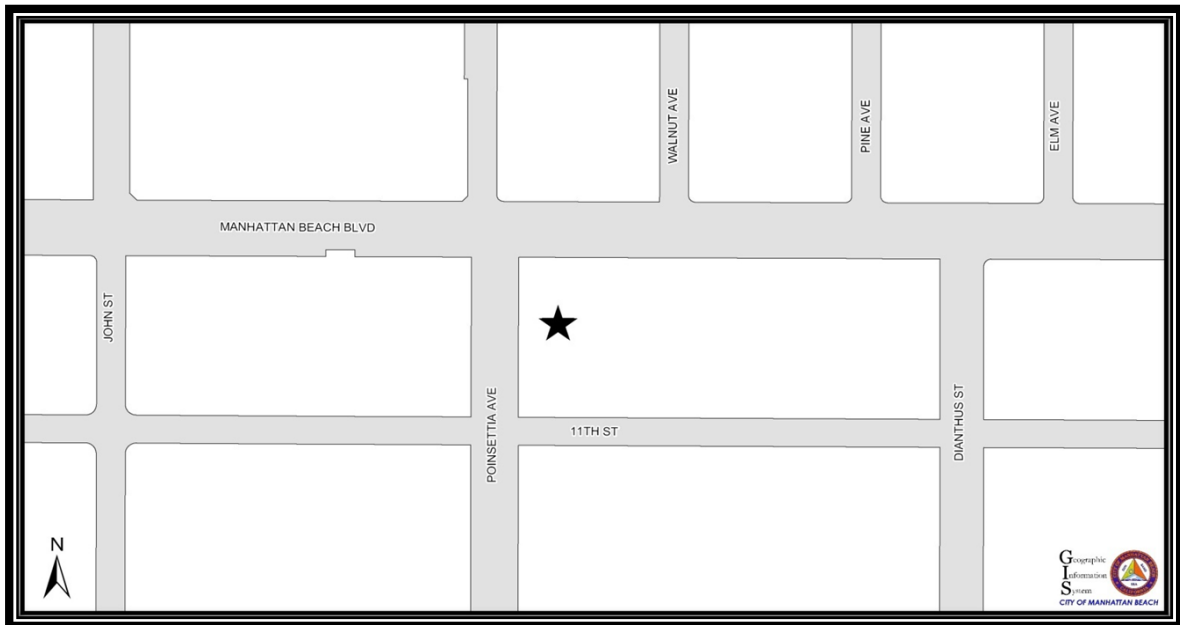
Justification: The Poinsettia Sewage Lift Station has the smallest wet well capacity of any of the City's lift stations. It has only 394 gallons and 4.7 minutes of emergency storage at the peak wet weather flow rate of 85 gpm. Emergency storage for a regular dry day during the morning peak is only 8 minutes. This means that if the station fails, sewage would enter the dry well and disable the electrical systems after just 8 minutes. It is recommended that pump stations be equipped with at least 30 minutes of peak wet weather emergency storage. This station should be equipped with a minimum of 2,550 gallons emergency storage.

To provide the additional storage required, a new and deeper wet well must be constructed. It is possible that the existing dry/wet well could be used as the future dry well; however doing so would reduce the efficiency of the pumps and increase cavitation potential. It is recommended that a completely new station be built adjacent to the existing station that will possess a wet well with adequate emergency storage with a new adjacent drywell containing the pumps and controls.

An additional force main will be installed to provide system redundancy. The new force main would be 4" ductile iron pipe and would run from the station to Manhattan Beach Boulevard where it would discharge into a gravity sewer. The old force main would remain and would be available if the primary force main was damaged.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ 3,297,480	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,297,480
	TOTAL	\$ 3,297,480	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,297,480

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: 19501E

Original Funding Year: 2018-19

General Plan Element Goals: I-8

Project Title: Pacific Lift Station Upgrade, Emergency Storage, and Force Main Replacement

Description: Improvement of the Pacific Avenue Sewage Lift Station and installation of a second force main.

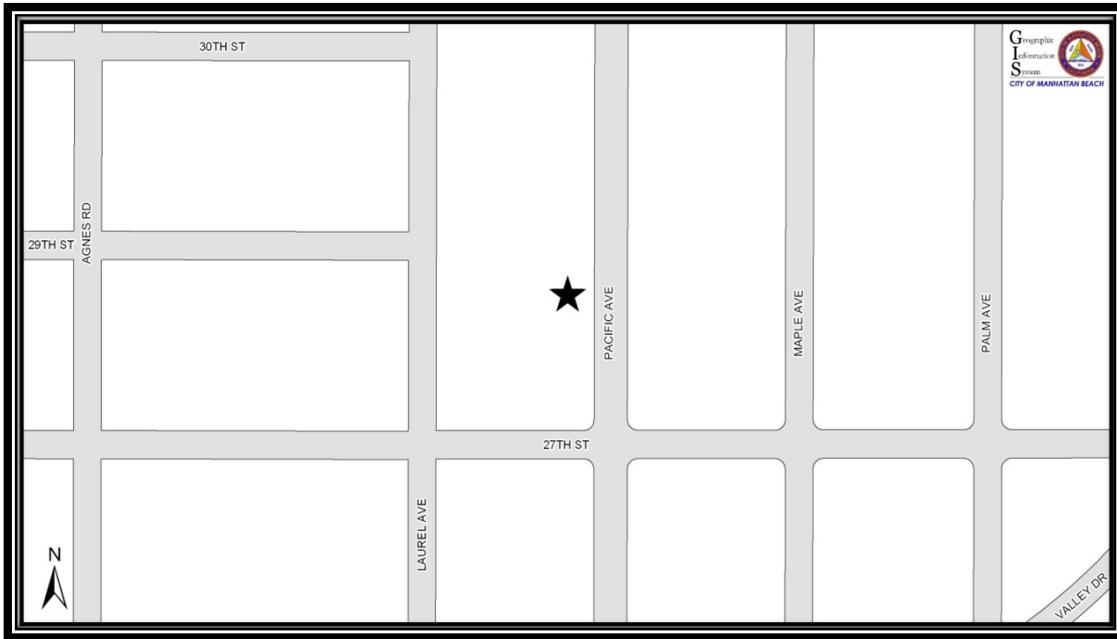
Justification: The Pacific Avenue Lift Station could not pump at the needed rate if one of the two pumps fail or is taken out of service for maintenance. Also, there is not sufficient storage at this location. This project will modify the pumps and controls to accommodate two pumps capable of pumping 400 gallons per minute.

The Pacific Avenue Lift Station currently pumps sewage through a 57-year-old 6" cast iron force main a distance of 1,225 feet to the intersection of Poinsettia Avenue and Ardmore Avenue. This project would construct an additional 6" force main to provide two force mains to serve this station and provide a safety redundancy. Also, appropriate emergency storage will be constructed at the site.

Project Cost Information:

Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
Wastewater Fund	\$ 2,400,000						\$ 2,400,000
TOTAL	\$ 2,400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,400,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Multiple Funds Wastewater (w/ water)
Carryover Project #: 11838E (WW) and 11834E (Water)
Original Funding Year: 2010-11
General Plan Element Goals:

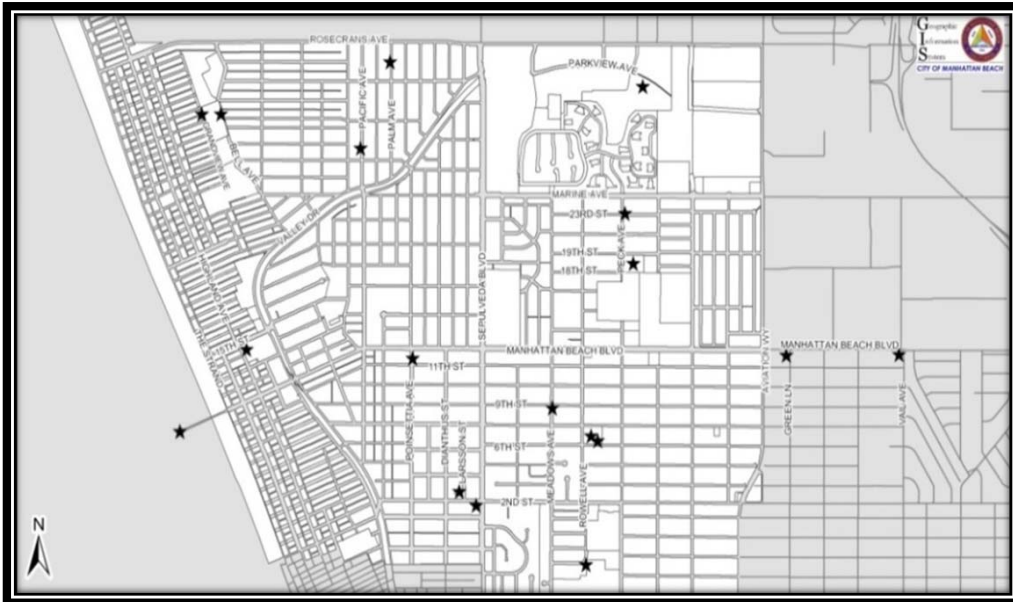
Project Title: Utility Telemetry

Description: Install radio communications to 21 existing water and wastewater stations at the Public Works Maintenance Facility.

Justification: The City monitors the function of 21 critical water and sewer facilities on a continuous basis. Presently, telephone is the only communication mode and there is no back-up system. Redundant communication is critical to assure the function of critical water and sewer facilities. This project establishes a new radio and potential fiber optic communication system installation while maintaining the current telephone system for redundancy.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ -	\$ -	\$ -	\$ 75,609	\$ -	\$ -	\$ 75,609
	TOTAL	\$ -	\$ -	\$ -	\$ 75,609	\$ -	\$ -	\$ 75,609

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: 20501E

Original Funding Year: 2019-20

General Plan Element Goals: I-8

Project Title: Voorhees Lift Station Upgrade, Emergency Storage, and Force Main Replacement

Description: Improvement of the Voorhees Sewage Lift Station and installation of a second force main.

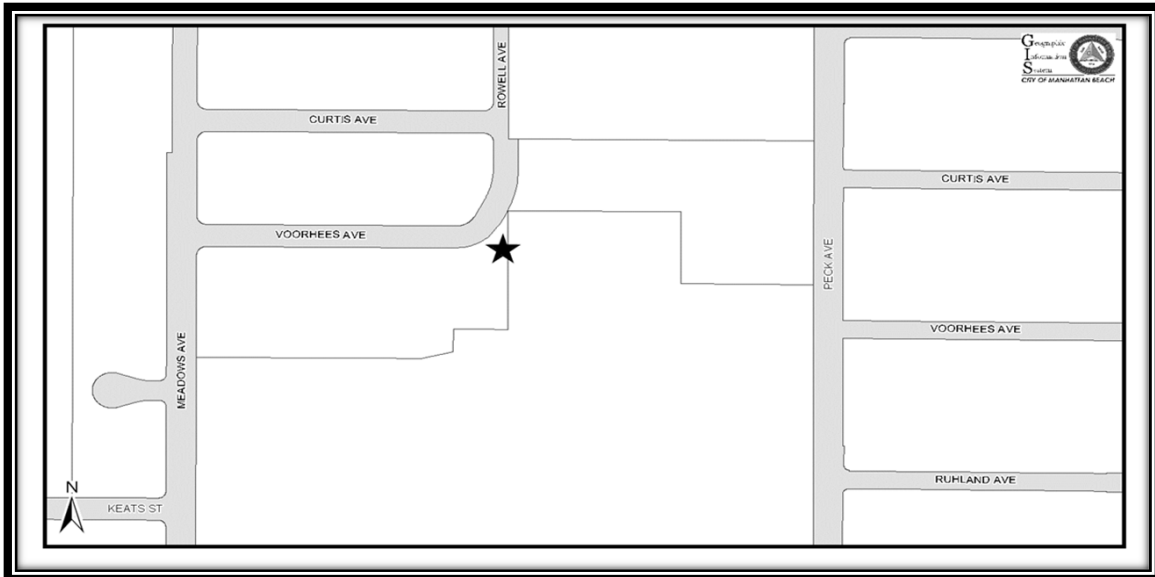
Justification: The Voorhees Lift Station currently cannot pump at the needed rate if one of the two pumps fail or is taken out of service for maintenance. Additionally there is insufficient storage at the station. This project will modify the pumps and controls to accommodate two pumps capable of pumping 350 gallons per minute and will provide additional emergency storage.

The Voorhees Lift Station pumps sewage through a 59-year-old 6" cast iron force main a distance of 1,300 feet to the intersection of Peck and Gates Avenues. This project would construct an additional 6" force main to provide two force mains to serve this station and provide a safety redundancy. Also, appropriate storage will be constructed at this site.

Project Cost Information:

Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
Wastewater Fund	\$ 2,150,000	\$ -	\$ -				\$ 2,150,000
TOTAL	\$ 2,150,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,150,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-8

Project Title: Meadows Lift Station Upgrade, Emergency Storage, and Force Main Replacement

Description: Improvement of the Pacific Avenue Sewage Lift Station and installation of a second force main.

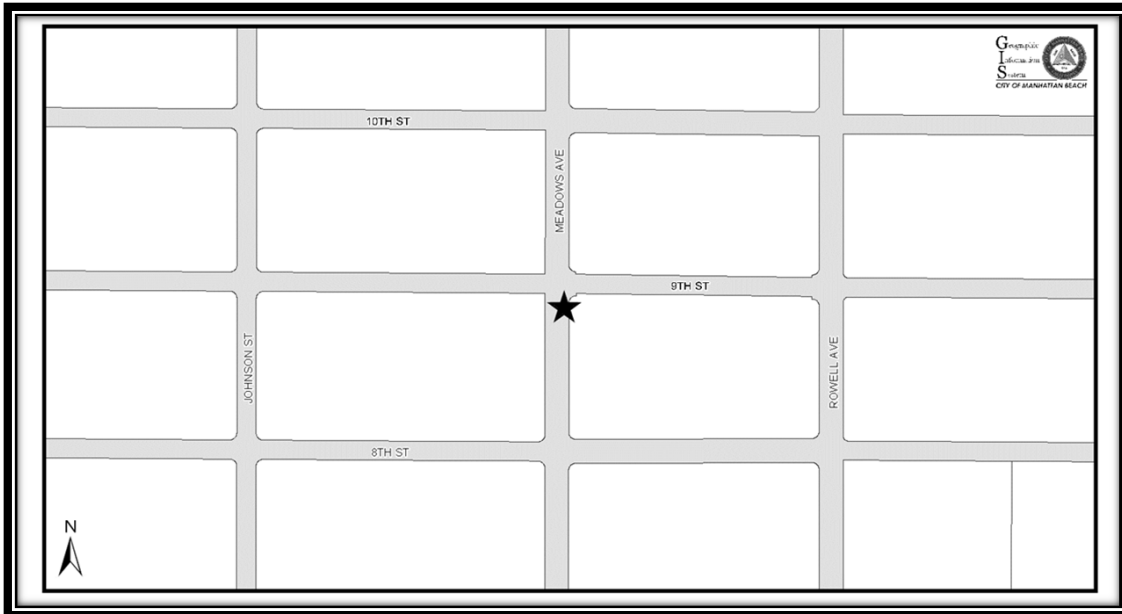
Justification: The Meadows Lift Station is located on Meadows Avenue immediately south of 9th Street. The current station could not pump at the needed rate if one of the two pumps fail or is taken out of service for maintenance. Additionally, there is insufficient storage at the station. This project will modify the pumps and controls to accommodate two pumps capable more efficient pumping and will provide additional emergency storage.

The Meadows Lift Station pumps sewage through a 59-year-old 6" cast iron force main a distance of 760 feet to the intersection of Meadows Avenue at 11th Street. This project would construct an additional 6" force main to provide two force mains to serve this station and provide a safety redundancy. Also, appropriate storage will be constructed at this site.

Project Cost Information:

Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
Wastewater Fund	\$ -	\$ -	\$ -	\$ 1,600,000		\$ -	\$ 1,600,000
TOTAL	\$ -	\$ -	\$ -	\$ 1,600,000	\$ -	\$ -	\$ 1,600,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund
Carryover Project #: N/A
Original Funding Year: N/A
General Plan Element Goals: I-8, I-11

Project Title: Wastewater Masterplan Update

Description: Last updated in 2010, the masterplan is a guidance document for infrastructure and operations, and the system capacity and hydraulic assessment citywide.

Justification: This update is necessary to revisit and readjust citywide plans for improvements for the next 10 years based on demands and condition of the important aging infrastructure.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ -	\$ 300,000	\$ -			\$ -	\$ 300,000
	TOTAL	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Location Map:

No map; plan update

City of Manhattan Beach Capital Improvement Plan FY2021-2025 Summary Sheets

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-8

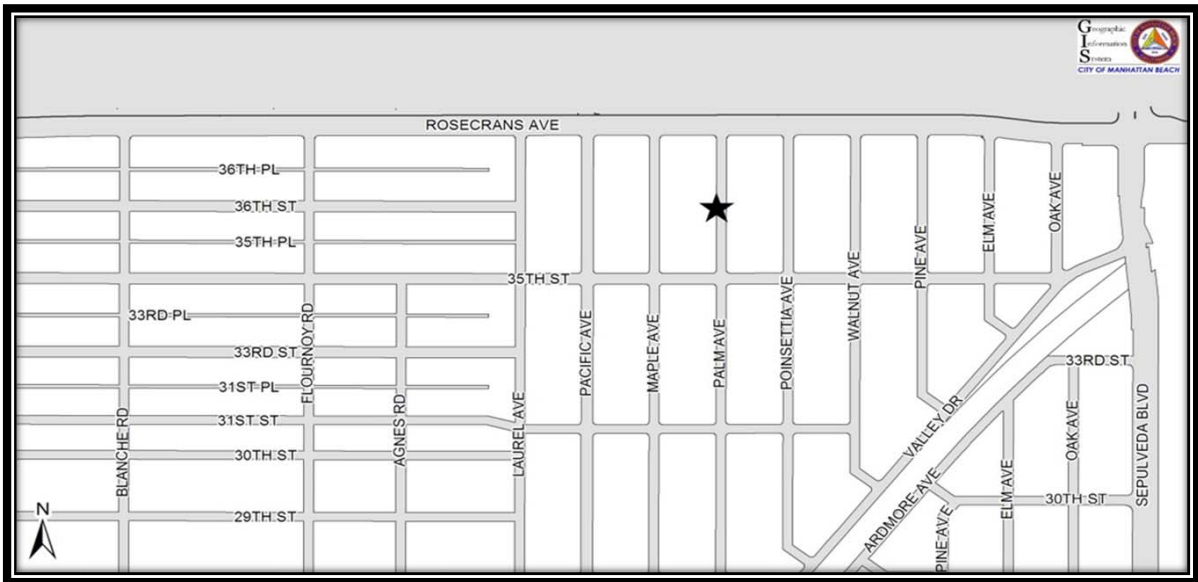
Project Title: Palm Lift Station Upgrade, Emergency Storage, and Force Main Replacement

Description: Improvement of the Palm Lift Station and construction of emergency storage.
Build 5,500 gallon sewer wet well and 775 foot long force main.

Justification: The Palm Lift station cannot pump at the needed rate and cannot accommodate the necessary materials for storage. The current wet well is not of adequate size to accommodate peak wet weather flow and the current force main is over 60 years old and has exceeded its useful-life. This project would construct an approximate 5,500 gallon sewer wet well and 775 foot long force main to increase efficiencies.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ -	\$ -	\$ -	\$ 1,400,000	\$ -		\$ 1,400,000
	TOTAL	\$ -	\$ -	\$ -	\$ 1,400,000	\$ -	\$ -	\$ 1,400,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Wastewater Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-8, I-11

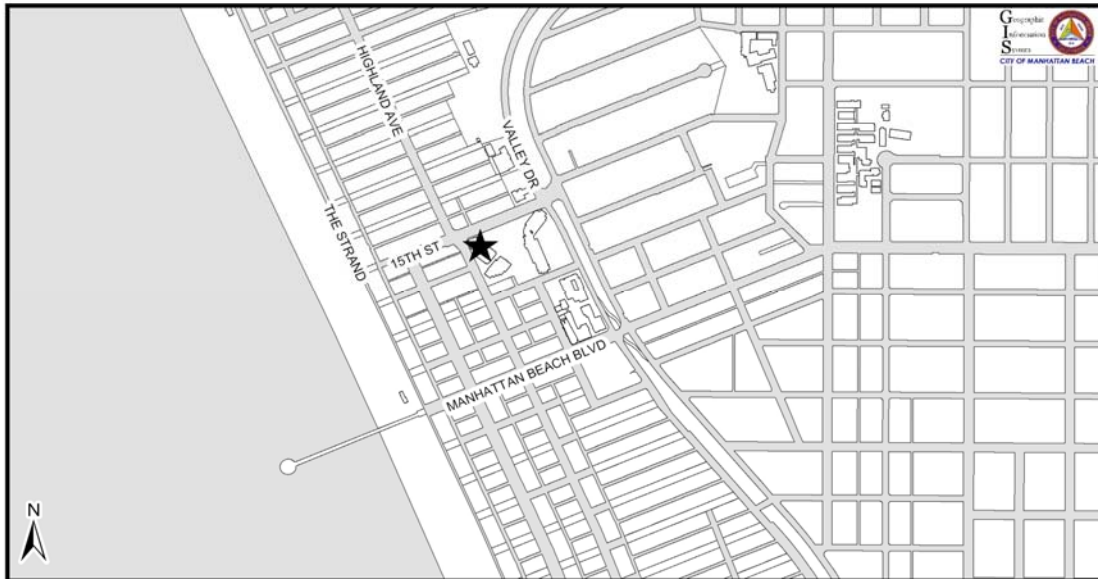
Project Title: City Hall Lift Station Upgrade, Emergency Storage, and Force Main Replacement

Description: Replacement and upgrade of the City Hall Lift Station and force main and construction of emergency storage. The project includes two new, more efficient, pumps and motors, motor controls, wiring and new SCADA equipment.

Justification: The City Hall Lift station is located on the lower level of City Hall and is reaching its useful life. The pumps, motors, and related equipment need to be replaced to ensure its reliability.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Wastewater Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000
	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Parking Fund
Carryover Project #: 18701E
Original Funding Year: 2017-18
General Plan Element Goals: LU-3, CS-1

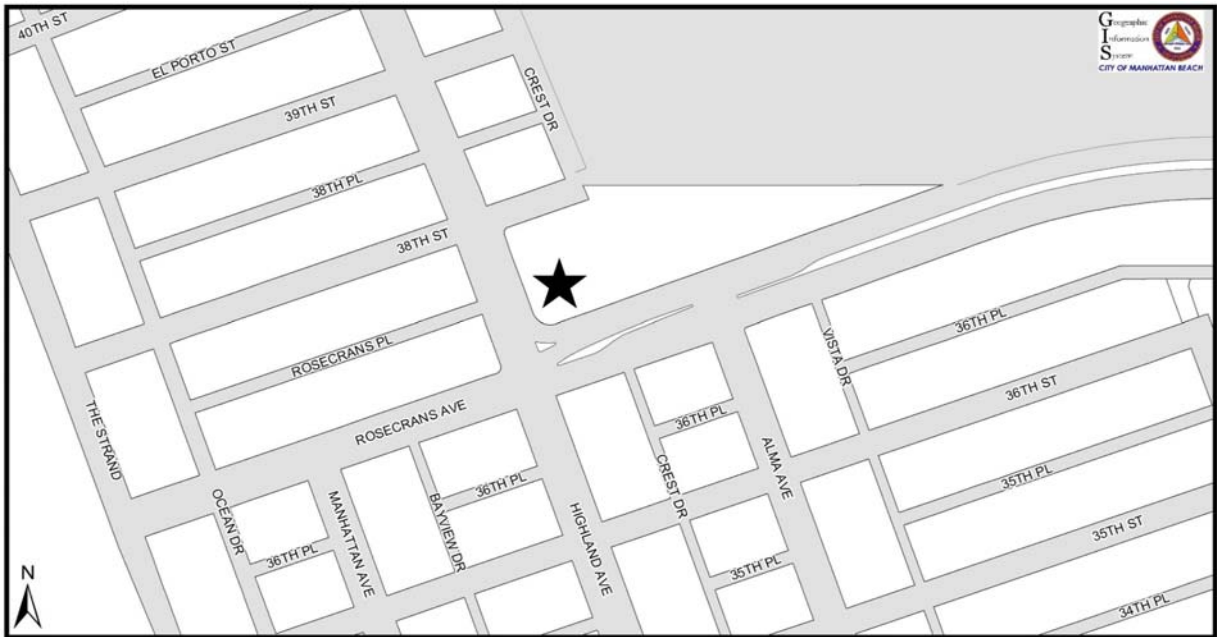
Project Title: Parking Structure Structural Rehab: Lot 4

Description: Perform in-depth analysis of parking lot 4 to determine whether the structure can be rehabilitated or require complete replacement. This analysis will also look at various options if replacement is necessary or preferred to expand parking spaces.

Justification: The structure is reaching the end of its useful life and must be evaluated for significant retrofit or replacement for the safety of the public. Clearly the structure is showing visible deterioration needing attention.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Parking Fund	\$ 642,358	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 642,358
	TOTAL	\$ 642,358	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 642,358

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Parking Fund
Carryover Project #: N/A
Original Funding Year: N/A
General Plan Element Goals: LU-3, CS-1

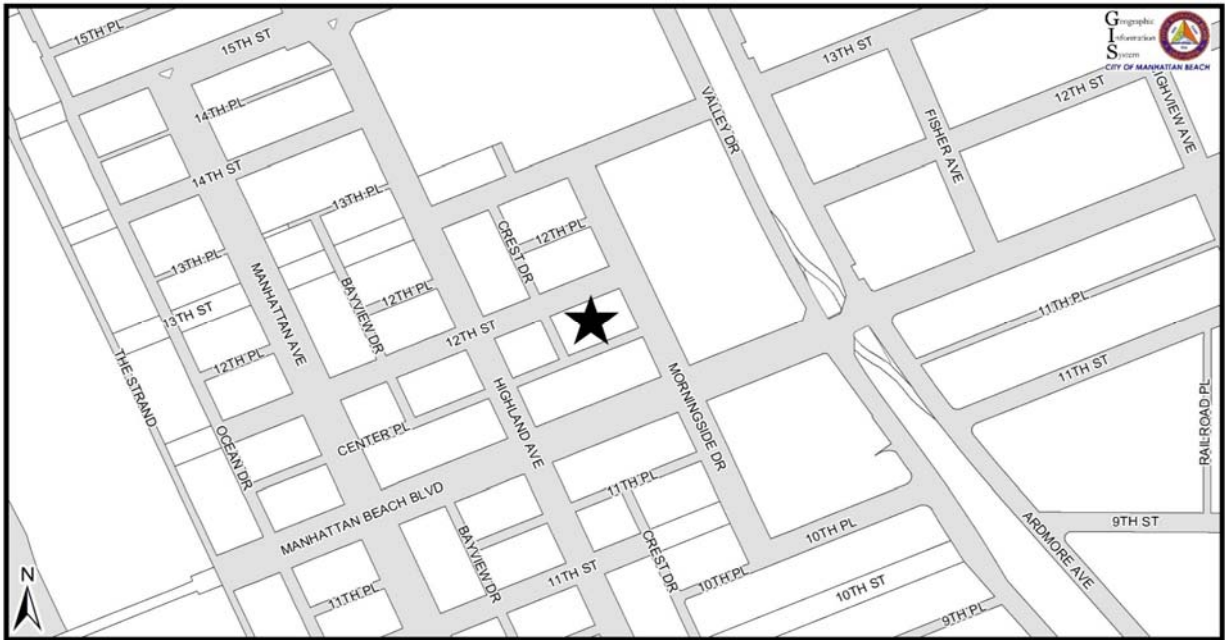
Project Title: Parking Structure Structural Analysis/Design: Lot 3

Description: Perform in-depth analysis of parking lot 3 to determine whether the structure can be rehabilitated or require complete replacement. This analysis will also look at various options if replacement is necessary or preferred to expand parking spaces.

Justification: The structure is reaching its useful life and must be evaluated for significant retrofit or replacement for the safety of the public. Clearly the structure is showing visible deterioration needing attention.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Parking Fund		\$ -	\$ -	\$ 150,000	\$ 800,000	\$ -	\$ 950,000
	TOTAL		\$ -	\$ -	\$ 150,000	\$ 800,000	\$ -	\$ 950,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: Parking Fund
Carryover Project #: 15832E
Original Funding Year: 2014-15
General Plan Element Goals: LU-3.4, I-1, I-2.3, I-6

Project Title: Way Finding Program (Phase I)

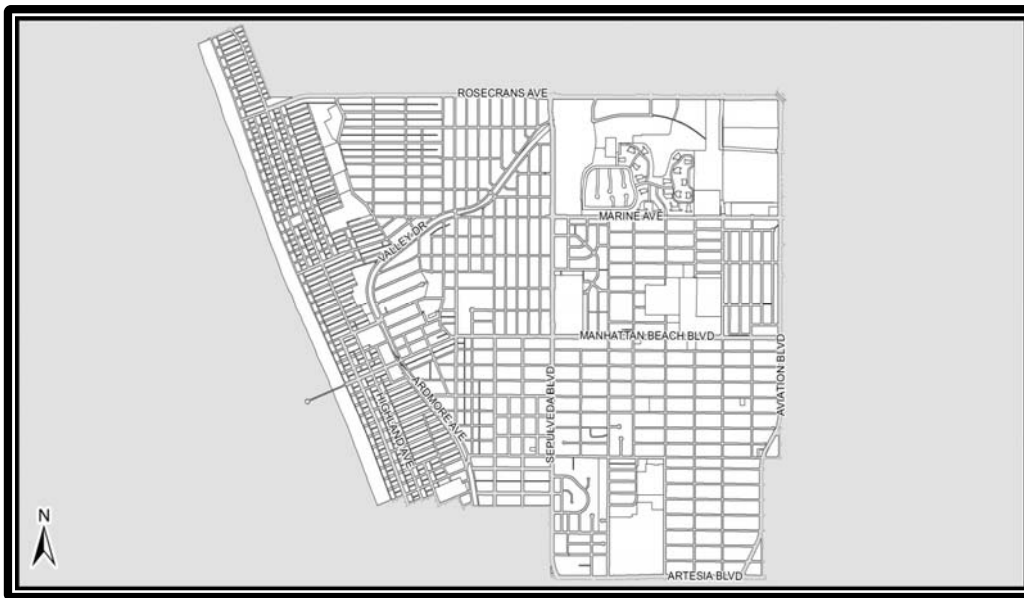
Description: Uniform sign design to be employed Citywide.

Justification: Current signs are a mix of "one-off" custom designs, departmental brandings, and standard regulatory style signs. In order to provide uniformity and location familiarity while in and around City of Manhattan Beach facilities, standardized layout, color, sizing, typeface/font, and logo/branding is desirous. Residents and visitors alike should be able to readily identify City owned and operated facilities.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	Parking Fund	\$ 347,184	\$ -	\$ -	\$ -			\$ 347,184
	TOTAL	\$ 347,184	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 347,184

Location Map:

Signs evaluated Citywide.



**City of Manhattan Beach
Capital Improvement Plan FY2021-2025
Summary Sheets**

Category:

- Carryover Project (Received previous appropriation)
- New Project (Funding identified, not yet appropriated)
- Unfunded Project (Funding not available at this time)

Funding Source: State Pier & Parking Fund
Carryover Project #: 19801E
Original Funding Year: 2018-19
General Plan Element Goals: CR-1

Project Title: Pier Railings Project

Description: Rehabilitate and Replace affected sections of the railings along the Manhattan Beach Pier.

Justification: The harsh marine environment is causing significant corrosion to the railings and deterioration of the railing curbs.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-29-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	FY2024-25	TOTAL
	State Pier Fund	\$ 150,084	\$ -	\$ 1,400,000	\$ -	\$ -		\$ 1,550,084
TOTAL		\$ 150,084	\$ -	\$ 1,400,000	\$ -	\$ -	\$ -	\$ 1,550,084

Location Map:

