

CITY OF MANHATTAN BEACH CALIFORNIA



ADOPTED 2020-2024 CAPITAL IMPROVEMENT PLAN

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City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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June 4, 2019

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 Year 2019-2020, 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 128 projects (carryover and new) estimated at \$130 million dollars. In its current state, the plan considers \$12,925,000 million in new fiscal appropriations for FY19-20. 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 seven other special revenue sources listed above. 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, studies and master plans, landscaping enhancements, signage, and other right-of-way and public property improvements.

Water Funds

The 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

The 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

The 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.

Refuse Fund

This category addresses the need for City refuse enclosure improvements. There is only one (1) project listed in this category, which represents 18 locations at City facilities where trash enclosures need to be connected to the sanitary sewer system and enclosures need to be reconstructed to better accommodate waste containers.

Parking Funds

The 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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Acknowledgements

The FY2020-2024 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
- Libby Bretthauer, Senior Financial Analyst
- Anna Luke-Jones, Public Works Senior Management Analyst
- Anastasia Seims, Senior Civil Engineer

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.



City of Manhattan Beach

Capital Improvement Plan FY2020-2024

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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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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Reader's Guide

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. Extensive outreach was performed to obtain project ideas and infrastructure concerns via the City's Open City Hall module during November and December 2018. Public input was invited via Fall Manhappenings (print and electronic), the City's Facebook, Twitter, NextDoor and E-notification system. Emails were sent to City Council, Commissioners and School District Representatives. Multiple Beach Reporter print ads promoting the City Council CIP Study Session were published. Also, 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.

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

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Reader's Guide

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:

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

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

The proposed Capital Improvement Plan, and specifically 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.

Comments made by the Parking and Public Improvements Commission and the Planning Commission 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.

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Reader's Guide

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.

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 FY2020-2024

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.
Gas Tax Fund	<i>The Gas Tax 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.
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.
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.
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. <u>Local Return</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 South Bay Highway	<u>South Bay Highway Projects</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)".
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.
Prop A Funds (Recreation)	The recreation Proposition A Funds were voter approved bonds for open acquisition, park improvements, nature trails, and other recreational

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Glossary of Key Terms

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 & Parking 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.
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.
West Basin Municipal Water District	The City of Manhattan Beach purchases its water from West Basin who is a member of MWD. West Basin also operates a water recycling facility in El Segundo.

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project	Remaining						TOTAL
Sheet	Allocation as						
Pg. No.	of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Five-Year
CIP Project Funding Summary							
Streets & Highways Fund	4,955,154	800,000	990,000	1,750,000	750,000	1,750,000	10,995,154
Prop C Fund	21,402,725	400,000	800,000	-	1,200,000	-	23,802,725
Measure R Fund	1,483,905	340,000	720,000	-	800,000	-	3,343,905
Measure M Fund	335,000	480,000	640,000	600,000	-	800,000	2,855,000
CIP Fund	7,166,576	2,745,000	735,000	885,000	885,000	885,000	13,301,576
Water Fund	36,630,732	1,700,000	2,050,000	1,750,000	2,250,000	2,000,000	46,380,732
Stormwater Fund	1,476,367	710,000	1,210,000	710,000	710,000	710,000	5,526,367
Wastewater Fund	7,421,289	3,250,000	3,000,000	2,500,000	1,100,000	2,500,000	19,771,289
Refuse Fund	150,000	650,000	-	-	-	-	800,000
Parking Fund	480,250	1,850,000	-	-	150,000	800,000	3,280,250
State Pier & Lot Fund	240,000	-	-	-	-	-	240,000
	\$81,741,998	\$12,925,000	\$10,145,000	\$8,195,000	\$7,845,000	\$9,445,000	\$130,296,998

¹ "Remaining Allocation as of 02/28/19" 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.

Projects in RED are New to the 5-Year CIP
Projects in BLUE have been modified

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project Sheet Pg. No.	Remaining Allocation as of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	TOTAL Five-Year
Streets & Highways Fund							
Streets-Concrete Repairs							
21 Annual Curb, Gutter and Ramp Replacement	\$766,003	\$300,000	\$365,000	\$365,000	\$365,000	\$365,000	\$2,526,003
22 Strand Resurfacing Project	200,000	-	-	-	-	-	200,000
23 Village Field ADA Access: Design	100,000	-	-	-	-	-	100,000
Streets-Concrete Repairs Total	\$1,066,003	\$300,000	\$365,000	\$365,000	\$365,000	\$365,000	\$2,826,003
Streets-Pavement Projects							
24 Annual Slurry Seal Program	\$1,155,000	-	\$585,000	\$385,000	\$385,000	\$385,000	\$2,895,000
25 Annual Street Resurfacing Program	375,000	500,000	-	1,000,000	-	1,000,000	\$2,875,000
26 Street Resurfacing: Marine from Sepulveda to Aviation	598,259	-	-	-	-	-	\$598,259
27 Morningside Drive: 10th to MBB	199,368	-	-	-	-	-	\$199,368
28 Triennial Pavement Management System Update	-	-	40,000	-	-	-	\$40,000
Streets-Pavement Projects Total	\$2,327,627	\$500,000	\$625,000	\$1,385,000	\$385,000	\$1,385,000	\$6,607,627
Streets-Capacity Improvements							
29 Aviation at Artesia, SB to WB Right-Turn Lane (SBHP Grant)	\$1,349,066	-	-	-	-	-	\$1,349,066
30 Sepulveda & 8th St Intersection Improvements (HSIP Grant)	212,458	-	-	-	-	-	\$212,458
Streets-Capacity Improvements Total	\$1,561,524	-	-	-	-	-	\$1,561,524
Streets & Highways Total	\$4,955,154	\$800,000	\$990,000	\$1,750,000	\$750,000	\$1,750,000	\$10,995,154
Prop C Fund							
Streets-Pavement Projects							
31 Street Resurfacing: Marine from Sepulveda to Aviation	\$450,414	-	-	-	-	-	\$450,414
32 Annual Street Resurfacing Program	700,000	400,000	800,000	-	1,200,000	-	\$3,100,000
Streets-Pavement Projects Total	\$1,150,414	\$400,000	\$800,000	-	\$1,200,000	-	\$3,550,414
Streets-Capacity Improvements							
33 Dual LT Lanes on MBB at Sepulveda (SBHP Grant)	\$1,244,681	-	-	-	-	-	\$1,244,681
34 Sepulveda Bridge (SBHP Grant)	8,692,678	-	-	-	-	-	\$8,692,678
34 Sepulveda Bridge Widening (MTA Call Grant)	6,697,261	-	-	-	-	-	\$6,697,261
34 Sepulveda Bridge Widening Prop C Local	2,632,251	-	-	-	-	-	\$2,632,251
35-36 Sepulveda Intersection Improvements - Cedar/Marine only	985,440	-	-	-	-	-	\$985,440
Streets-Capacity Improvements Total	\$20,252,311	-	-	-	-	-	\$20,252,311
Prop C Total	\$21,402,725	\$400,000	\$800,000	-	\$1,200,000	-	\$23,802,725

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project	Remaining						TOTAL
Sheet	Allocation as						Five-Year
Pg. No.	of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	
Measure R							
Streets-Pavement Projects							
37	Street Resurfacing: Liberty Village	\$748,905	-	-	-	-	\$748,905
38	Annual Street Resurfacing Program	-	-	\$400,000	\$800,000	-	\$1,200,000
Streets-Pavement Projects Total		\$748,905	-	\$400,000	\$800,000	-	\$1,948,905
Streets-Capacity Improvements							
39	Protected LT Lanes: MBB at Peck Ave	\$285,000	-	-	-	-	\$285,000
Streets-Capacity Improvements Total		\$285,000	-	-	-	-	\$285,000
Streets-Pedestrian Improvements							
40	Ocean Drive Walkstreet Crossings	\$450,000	-	-	-	-	\$450,000
41	Rosecrans Bike Lane Improvements (relocated from CIP Fund)	-	\$240,000	-	-	-	\$240,000
42	Aviation (West-side) and 33rd Sidewalk	-	100,000	320,000	-	-	\$420,000
Streets-Pedestrian Improvements Total		\$450,000	\$340,000	\$320,000	-	-	\$1,110,000
Measure R Total		\$1,483,905	\$340,000	\$720,000	\$800,000	-	\$3,343,905
Measure M							
43	ADA Transition Plan within Public Rights of Way	\$60,000	-	-	-	-	\$60,000
44	Street Resurfacing: Liberty Village	275,000	-	-	-	-	\$275,000
45	Rowell Avenue Sidewalk Connection (Curtis & 1st St.)	-	200,000	640,000	-	-	\$840,000
46	Annual Street Resurfacing Program	-	-	-	600,000	800,000	\$1,400,000
47	Traffic Signal Pole: 15th and Highland	-	280,000	-	-	-	\$280,000
Streets-Pedestrian Improvements Total		\$335,000	\$480,000	\$640,000	\$600,000	\$800,000	\$2,855,000
Measure M Total		\$335,000	\$480,000	\$640,000	\$600,000	\$800,000	\$2,855,000

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project Sheet Pg. No.	Remaining Allocation as of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	TOTAL Five-Year
CIP Fund							
Facilities Projects							
48	Facility Improvements	\$1,880,481	\$630,000	\$600,000	\$400,000	\$650,000	\$4,810,481
49	Streetlight LED Retrofit	381,189	-	-	-	-	\$381,189
50	City Hall 1st & 2nd Floor Restroom Remodel	476,550	-	-	-	-	\$476,550
51	Mariposa Fitness Station	217,500	-	-	-	-	\$217,500
52	Village Field Light Fixtures Replacement	39,597	-	-	-	-	\$39,597
53-54	Ceramics Studio Upgrades	267,000	-	-	-	-	\$267,000
55	City Hall Remodel	42,000	-	-	-	-	\$42,000
56	Engineering Division Space Planning	336,023	-	-	-	-	\$336,023
57	Fire Station 2 Design Development	777,441	-	-	-	-	\$777,441
58	Senior and Scout House	550,000	450,000	-	-	-	\$1,000,000
59	Replacement/Upgrade Fire Station 1 Diesel Exhaust Removal Sys.	-	30,000	-	-	-	\$30,000
60	Begg Field Improvements (Lighting, Fencing, etc.)	500,000	-	-	-	-	\$500,000
61	Historic Documents Repository	-	-	-	250,000	-	\$250,000
62	School District Project - TBD	-	250,000	-	-	-	\$250,000
	Facilities Projects Total	\$5,467,781	\$1,360,000	\$600,000	\$650,000	\$650,000	\$9,377,781
Right-of-Way Projects							
63	Downtown Streetscape Improvements: Traffic Signal Pole Replacem	\$993,050	-	-	-	-	\$993,050
64	Traffic Signal Battery Back-Up Installation	110,000	-	-	-	-	\$110,000
65	Traffic Signal Preemption Devices	158,282	-	-	-	-	\$158,282
66	Annual Non-Motorized Transport. Program (Bike Ins, Crswlks, etc.)	7,715	100,000	100,000	100,000	100,000	\$507,715
67	Veterans Parkway Pedestrian Access Master Plan	79,748	-	-	-	-	\$79,748
68	Roadway Safety Bollards/Barriers (concepts only)	-	-	-	-	-	-
69	Automatic License Plate Reader - Sepulveda Blvd (pole only)	-	150,000	-	-	-	\$150,000
	Right-of-Way Projects Subtotal	1,348,795	250,000	100,000	100,000	100,000	1,998,795
Grants and Special Funds Projects							
70	Polliwog Playground Resurfacing & Equip. Replace. (Prop A/CIP)	-	1,000,000	-	-	-	\$1,000,000
71	Polliwog Band Stage (Public Art Trust Fund)	-	100,000	-	-	-	\$100,000
72	Village Field Access Ramp Construction (CDBG Funds)	300,000	-	-	-	-	\$300,000
73	Annual ADA Improvements Program (CDBG Funds)	-	-	-	100,000	100,000	\$300,000
74	Sepulveda/Oak Neighborhood Intrusion Study (Man. Village Mall)	50,000	-	-	-	-	\$50,000
75	Annual Streetlight Replacement (Streetlight Fund)	-	35,000	35,000	35,000	35,000	\$175,000
	Grants and Special Funds Projects Total	\$350,000	\$1,135,000	\$35,000	\$135,000	\$135,000	\$1,925,000
	CIP Fund Total	\$7,166,576	\$2,745,000	\$735,000	\$885,000	\$885,000	\$13,301,576

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project Sheet Pg. No.	Remaining Allocation as of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	TOTAL Five-Year
Water Fund							
Water Projects							
76 Annual Pipe Replacement Program	\$3,100,000	\$1,500,000	\$1,500,000	\$1,500,000	\$2,000,000	\$2,000,000	\$11,600,000
77 Water Meter Upgrade and Automation	5,340,000	-	-	-	-	-	\$5,340,000
78 Block 35 Ground Level Reservoir Replacement (Design Only)	1,200,000	-	-	-	-	-	\$1,200,000
79 Chloramination System at Wells 11 & 15	302,879	-	-	-	-	-	\$302,879
80 Larsson Street Booster Station Improvement	745,500	-	-	-	-	-	\$745,500
81 Paint Block 35 Elevated Tank	841,594	-	-	-	-	-	\$841,594
82 Peck Ground Level Reservoir Replacement	23,110,364	-	-	-	-	-	\$23,110,364
83 Redrill & Equip Well 15	650,000	-	-	-	-	-	\$650,000
84 Utility Radio Telemetry	215,395	-	-	-	-	-	\$215,395
85 Well 11A Variable Frequency Drive Installation	125,000	-	-	-	-	-	\$125,000
86 Well 15 Electrical Panel Replacement and VFD Installation	300,000	-	-	-	-	-	\$300,000
87 Well Collection Line from Well 11A to Block 35 (Design Only)	700,000	-	-	-	-	-	\$700,000
88 Water Masterplan Update	-	-	300,000	-	-	-	\$300,000
89 Electronics Automation - SCADA, etc.	-	200,000	-	-	-	-	\$200,000
90 Generator Upgrades - Larsson, Well 15 and Block 35	-	-	250,000	250,000	250,000	-	\$750,000
Water Projects Total	\$36,630,732	\$1,700,000	\$2,050,000	\$1,750,000	\$2,250,000	\$2,000,000	\$46,380,732
Water Total	\$36,630,732	\$1,700,000	\$2,050,000	\$1,750,000	\$2,250,000	\$2,000,000	\$46,380,732
Stormwater Fund							
Stormwater Projects							
91 Storm Drain Debris Collection Devices	\$670,159	\$60,000	-	\$210,000	\$210,000	\$210,000	\$1,360,159
92 Storm Drain Repairs	556,208	500,000	-	500,000	500,000	500,000	\$2,556,208
93 CCTV Storm Drain System	-	150,000	-	-	-	-	\$150,000
94 Stormwater Masterplan Update	250,000	-	-	-	-	-	\$250,000
95 Joint Watershed Project: Hermosa Greenbelt	-	-	500,000	-	-	-	\$500,000
96 Manhattan Vill. Trash Capture Device (reallocated from Refuse)	-	-	710,000	-	-	-	\$710,000
Stormwater Projects Total	\$1,476,367	\$710,000	\$1,210,000	\$710,000	\$710,000	\$710,000	\$5,526,367
Stormwater Total	\$1,476,367	\$710,000	\$1,210,000	\$710,000	\$710,000	\$710,000	\$5,526,367

SCHEDULE OF CAPITAL PROJECTS BY FUND

Project Sheet Pg. No.		Remaining Allocation as of 02/28/19 ¹	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	TOTAL Five-Year
Wastewater Fund								
	Wastewater Projects							
97	Annual Rehabilitation of Gravity Sewer Mains	\$1,648,200	\$1,100,000	\$1,100,000	\$1,100,000	\$1,100,000	\$1,500,000	\$7,548,200
98	Poinsettia Sewage Lift Station and Force Main Replacement	3,297,480	-	-	-	-	-	\$3,297,480
99	Pacific Lift Station Upgrade	2,400,000	-	-	-	-	-	\$2,400,000
100	Utility Radio Telemetry	75,609	-	-	-	-	-	\$75,609
101	Voorhees Lift Station Upgrade	-	2,150,000	-	-	-	-	\$2,150,000
102	Meadows Lift Station Upgrade	-	-	1,600,000	-	-	-	\$1,600,000
103	Wastewater Master Plan Update	-	-	300,000	-	-	-	\$300,000
104	Palm Lift Station Upgrade	-	-	-	1,400,000	-	-	\$1,400,000
105	City Hall Lift Station Upgrade	-	-	-	-	-	1,000,000	\$1,000,000
	Wastewater Projects Total	\$7,421,289	\$3,250,000	\$3,000,000	\$2,500,000	\$1,100,000	\$2,500,000	\$19,771,289
	Wastewater Total	\$7,421,289	\$3,250,000	\$3,000,000	\$2,500,000	\$1,100,000	\$2,500,000	\$19,771,289
Refuse Fund								
	Facilities Projects							
106	City-owned Refuse Enclosure Improvements	150,000	650,000	-	-	-	-	800,000
	Facilities Projects Total	\$150,000	\$650,000	-	-	-	-	\$800,000
	Refuse Total	\$150,000	\$650,000	-	-	-	-	\$800,000
Parking Fund								
	Parking Projects							
107	Parking Structure Structural Rehab: Lot 4	480,250	250,000	-	-	-	-	\$730,250
108	Parking Structure Structural Analysis/Design: Lot 3	-	-	-	-	150,000	800,000	\$950,000
109	Parking Meter Upgrades	-	1,400,000	-	-	-	-	\$1,400,000
110	Tree and Grate Installations (NMB-BID Fund)	-	200,000	-	-	-	-	\$200,000
	Parking Projects Total	\$480,250	\$1,850,000	-	-	\$150,000	\$800,000	\$3,280,250
	Parking Total	\$480,250	\$1,850,000	-	-	\$150,000	\$800,000	\$3,280,250
State Pier & Lot Fund								
	Facilities Projects	-	-	-	-	-	-	-
	Facilities Projects Total	-	-	-	-	-	-	-
	Parking Projects							
111	Pier Lot Safety Lighting	\$40,000	-	-	-	-	-	\$40,000
112	Pier Railings - Design	200,000	-	-	-	-	-	\$200,000
	Parking Projects Total	\$240,000	-	-	-	-	-	\$240,000
	State Pier & Lot Fund Total	\$240,000	-	-	-	-	-	\$240,000

**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

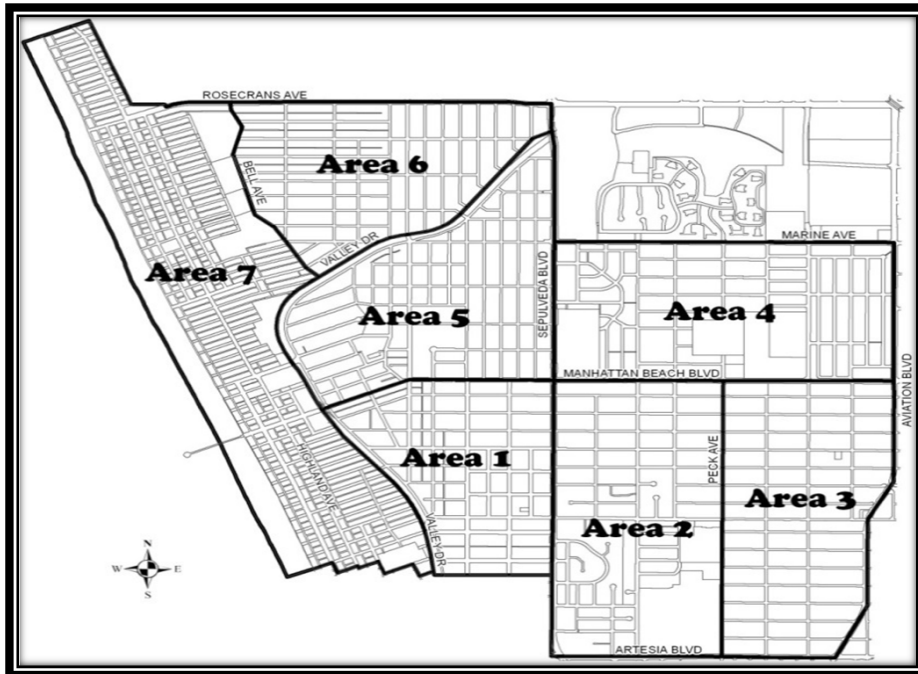
Project Title: Annual Curb, Gutter and Ramp Replacement Project

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Highway	\$ 766,003	\$ 300,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 2,526,003
	TOTAL	\$ 766,003	\$ 300,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 365,000	\$ 2,526,003

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 19103e

Original Funding Year: 2018-19

General Plan Element Goals: LU-3, LU-4, LU-7, I-1, HE-3, CR-1 & CS-1

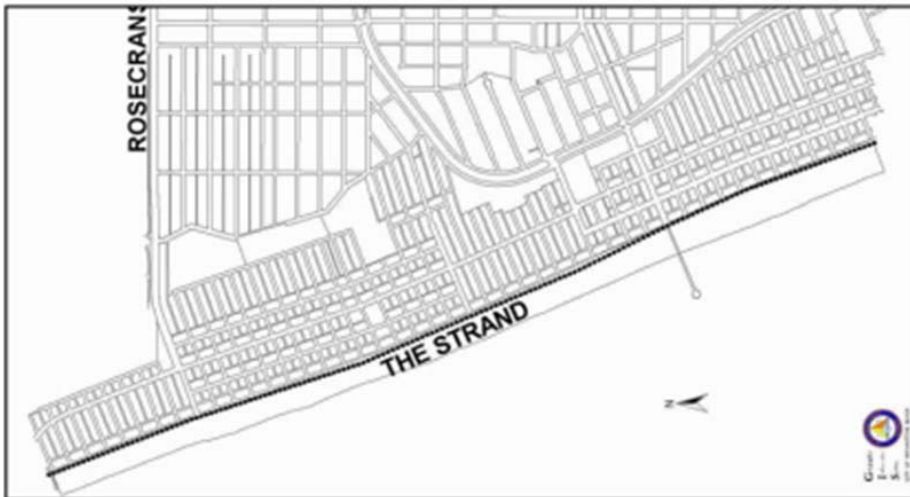
Project Title: The Strand Resurfacing Project

Description: Resurfacing of The Strand concrete surface.

Justification: The existing concrete walking surface has become noticeably much smoother over time resulting in slick conditions under certain circumstances. Multiple resident have complained of slick conditions. The project will to increase surface traction for pedestrians via various construction methods i.e. sandblasting etc.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Highway	\$ 200,000			\$ -	\$ -	\$ -	\$ 200,000
	TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

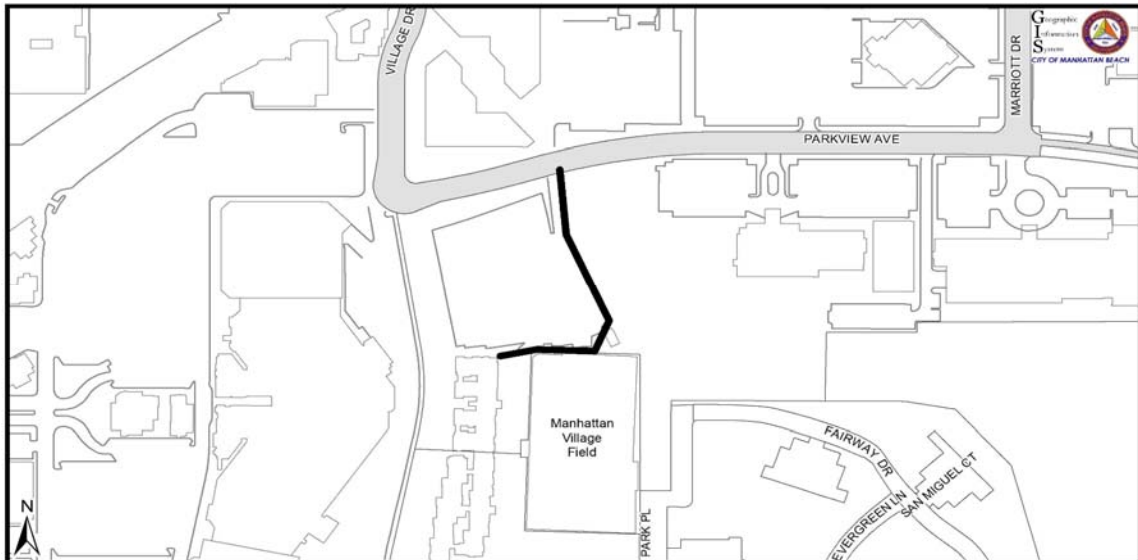
Project Title: Village Field ADA Access: Design

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Highway	\$ 100,000			\$ -	\$ -	\$ -	\$ 100,000
	TOTAL	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

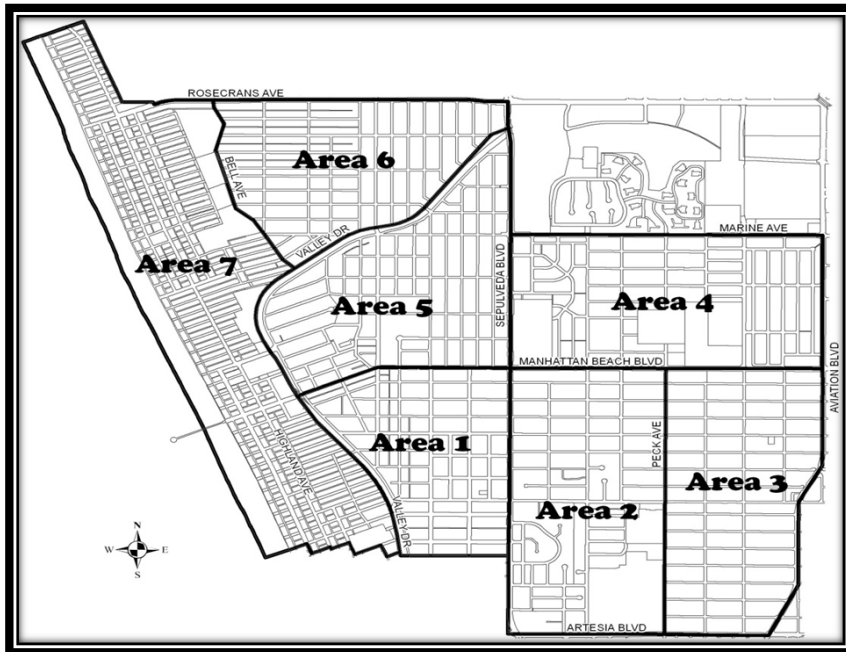
Project Title: Annual Slurry Seal Program

Description: Annual 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Gas Tax	\$ 1,155,000	\$ -	\$ 585,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 2,895,000
	TOTAL	\$ 1,155,000	\$ -	\$ 585,000	\$ 385,000	\$ 385,000	\$ 385,000	\$ 2,895,000

Location Map:



City of Manhattan Beach

Capital Improvement Plan FY2020-2024

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 St/Hwy, Prop C, Msr R & M

Carryover Project #: 19102E

Original Funding Year: 2018-19

General Plan Element Goals: I-1

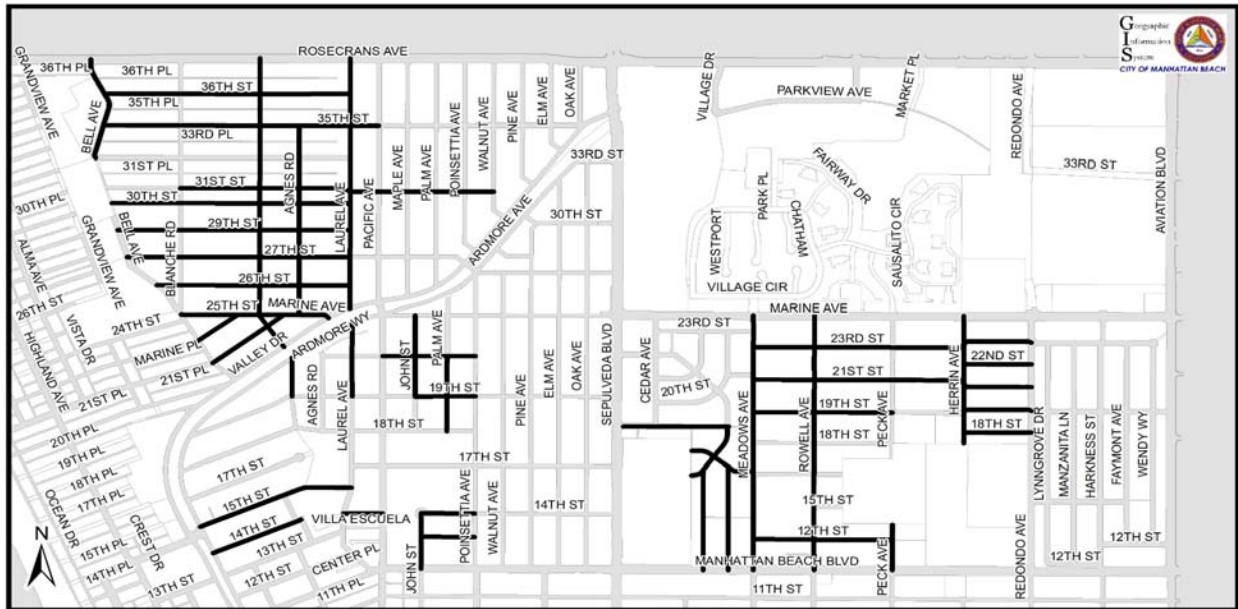
Project Title: Annual Street Resurfacing Program

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Hwy Fund		\$ 375,000	\$ 500,000		\$ 1,000,000		\$ 1,000,000	\$ 2,875,000
Prop C		\$ 700,000	\$ 400,000	\$ 800,000		\$ 1,200,000		\$ 3,100,000
Measure R				\$ 400,000		\$ 800,000		\$ 1,200,000
Measure M					\$ 600,000		\$ 800,000	\$ 1,400,000
TOTAL		\$ 1,075,000	\$ 900,000	\$ 1,200,000	\$ 1,600,000	\$ 2,000,000	\$ 1,800,000	\$ 8,575,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 St & Hwy and Prop C

Carryover Project #: 16101E

Original Funding Year: 2015-16

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

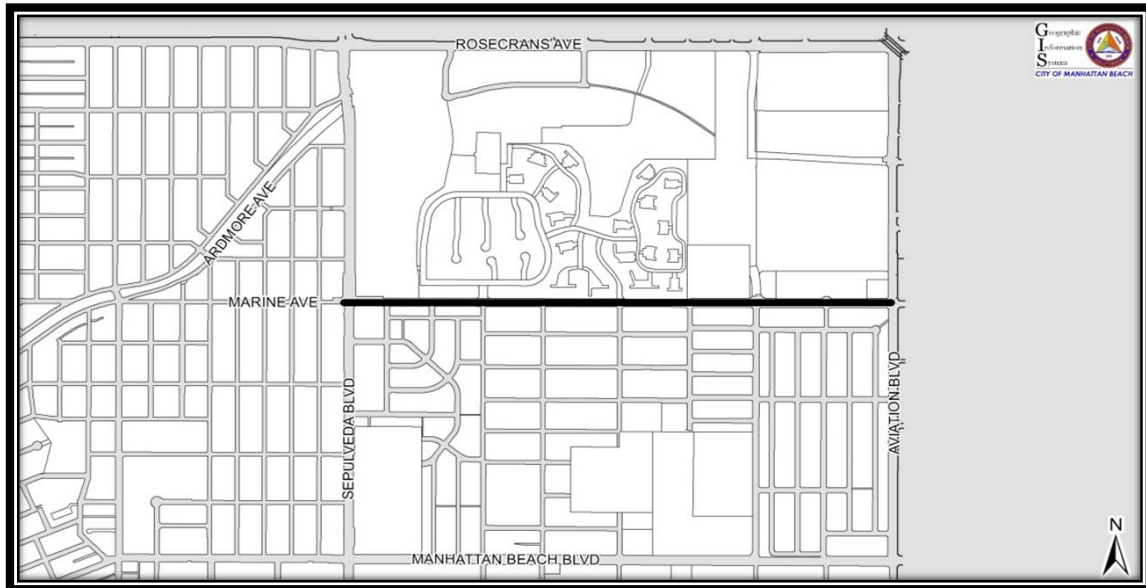
Project Title: Street Resurfacing Project: Marine Avenue (Sepulveda Boulevard to Aviation Boulevard)

Description: The project will mill and overlay the pavement surface, replace displaced curbs, gutters and sidewalk to extend the pavement useful life on Marine Avenue from Sepulveda Boulevard 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Highway		\$ 598,259	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 598,259
Prop C		\$ 450,414						\$ 450,414
TOTAL		\$ 1,048,673	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,048,673

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 15822E

Original Funding Year: 2014-15

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

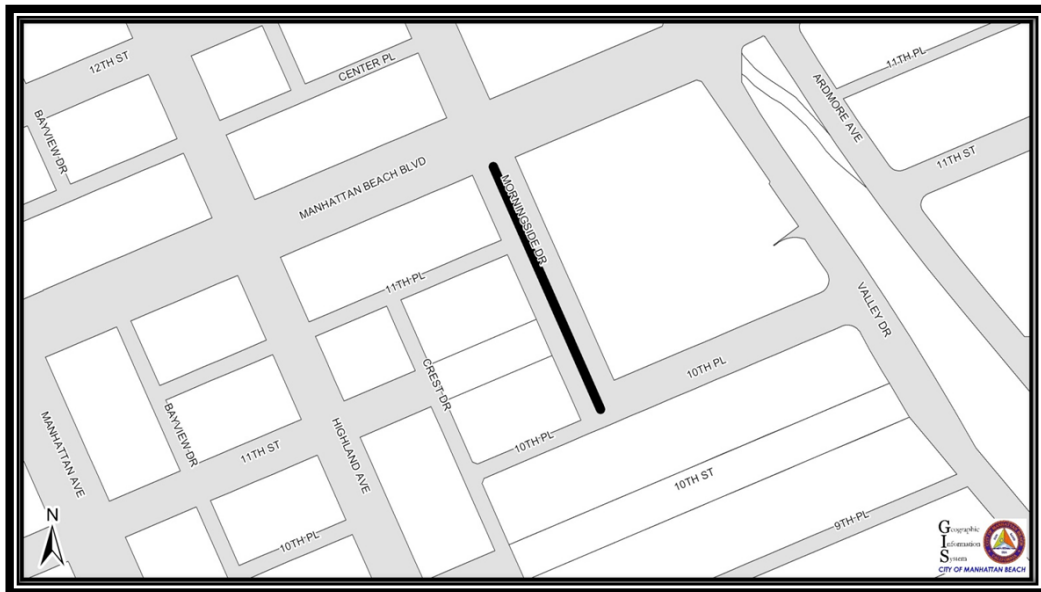
Project Title: Morningside Drive Rehabilitation

Description: The project will rehabilitate the pavement surface and replace displaced curbs, gutters and ramps on Morningside Drive from 10th Place to Manhattan Beach Blvd.

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

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Hwy Fund	\$ 199,368	\$ -		\$ -	\$ -	\$ -	\$ 199,368
	TOTAL	\$ 199,368	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 199,368

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Hwy Fund		\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000
	TOTAL	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000

Location

Map:

No map, system update

City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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)

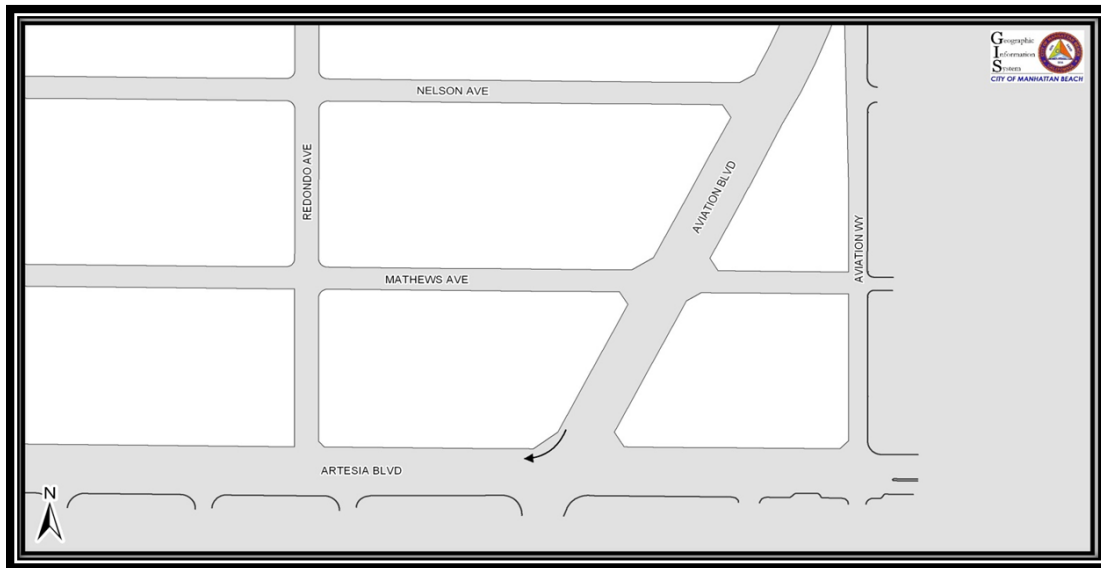
Description: Utility relocation, street widening and restriping of the northwest corner of the intersection of Aviation Boulevard at Artesia Boulevard to provide Southbound to westbound right-turn lanes. This project will be coordinated with City of Redondo Beach widening efforts on the southeast corner 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Hwy Fund (and SBHP Grant)	\$ 1,349,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,349,066
TOTAL	\$ 1,349,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,349,066

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

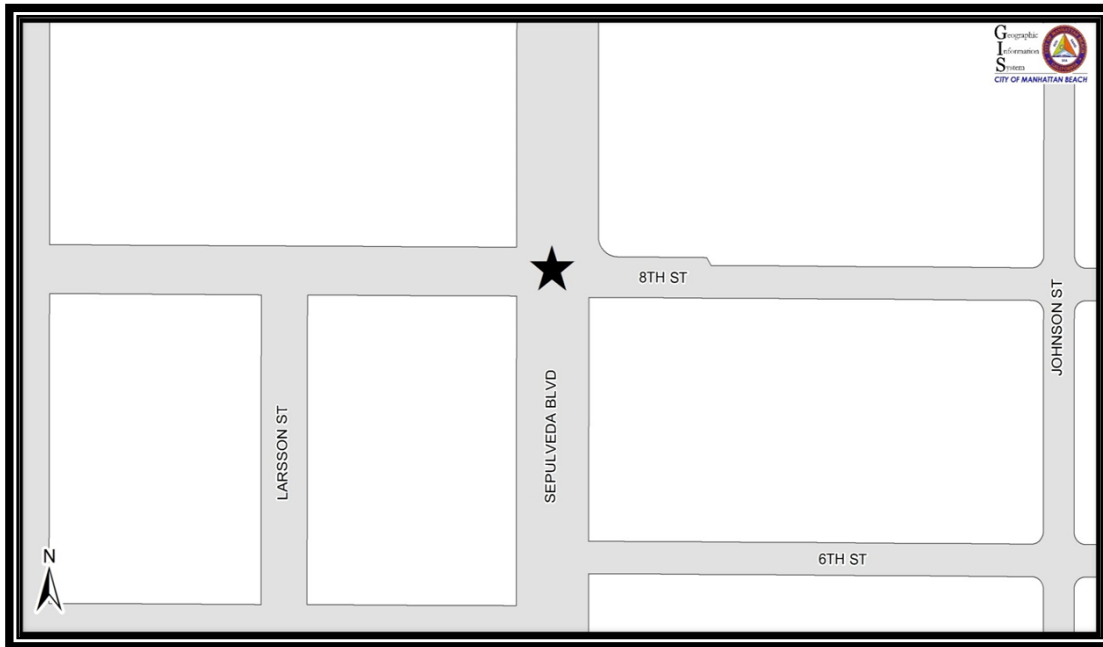
Project Title: Sepulveda Boulevard & 8th Street Intersection Improvements, Northbound and Southbound from Sepulveda to 8th (Highway Safety Improvement Program – HSIP)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streets & Hwy Fund (HSIP Grant)	\$ 212,458	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,458
	TOTAL	\$ 212,458	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 212,458

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 St & Hwy and Prop C

Carryover Project #: 16101E

Original Funding Year: 2015-16

General Plan Element Goals: I-1, I-2, I-2.3, I-6

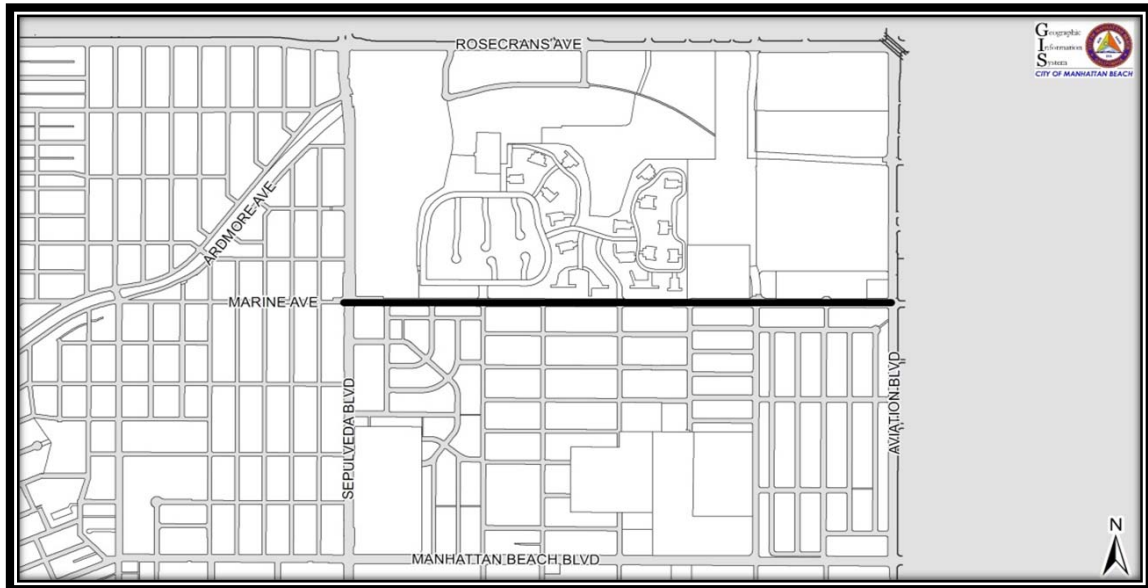
Project Title: Street Resurfacing Project: Marine Avenue (Sepulveda Boulevard to Aviation Boulevard)

Description: The project will mill and overlay the pavement surface, replace displaced curbs, gutters and sidewalk to extend the pavement useful life on Marine Avenue from Sepulveda Boulevard 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Highway		\$ 598,259	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 598,259
Prop C		\$ 450,414						\$ 450,414
TOTAL		\$ 1,048,673	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,048,673

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2020-2024 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 St/Hwy, Prop C, Msr R & M

Carryover Project #: 19102E

Original Funding Year: 2018-19

General Plan Element Goals: I-1, I-2, I-2.3, I-6

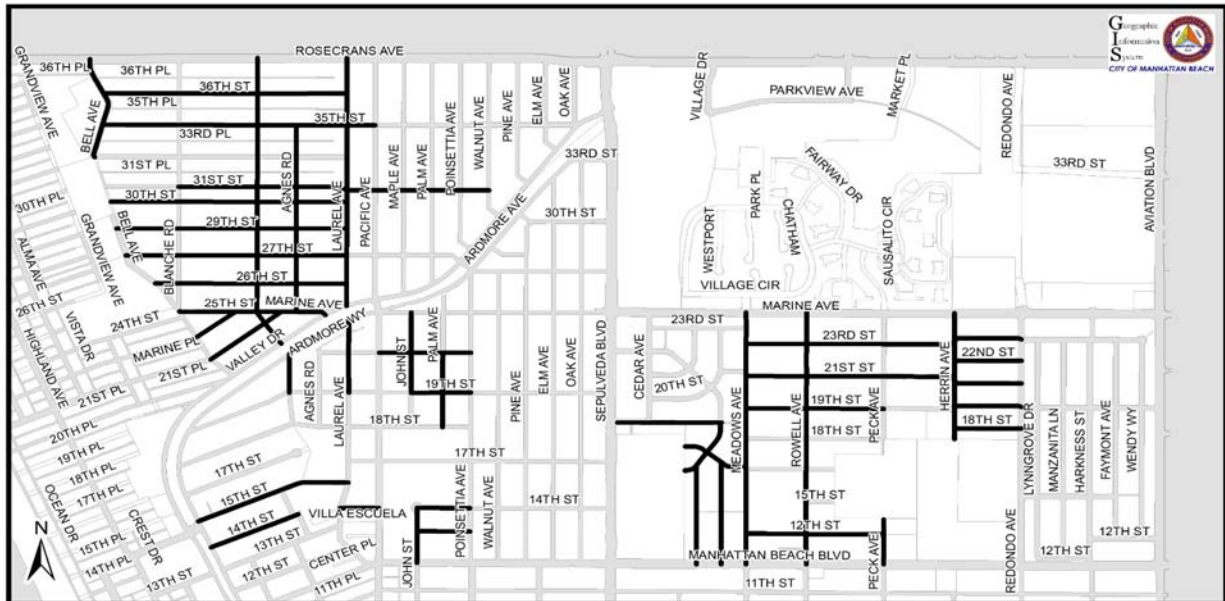
Project Title: Annual Street Resurfacing Program

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Hwy Fund		\$ 375,000	\$ 500,000		\$ 1,000,000		\$ 1,000,000	\$ 2,875,000
Prop C		\$ 700,000	\$ 400,000	\$ 800,000		\$ 1,200,000		\$ 3,100,000
Measure R				\$ 400,000		\$ 800,000		\$ 1,200,000
Measure M					\$ 600,000		\$ 800,000	\$ 1,400,000
TOTAL		\$ 1,075,000	\$ 900,000	\$ 1,200,000	\$ 1,600,000	\$ 2,000,000	\$ 1,800,000	\$ 8,575,000

Location Map:



City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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

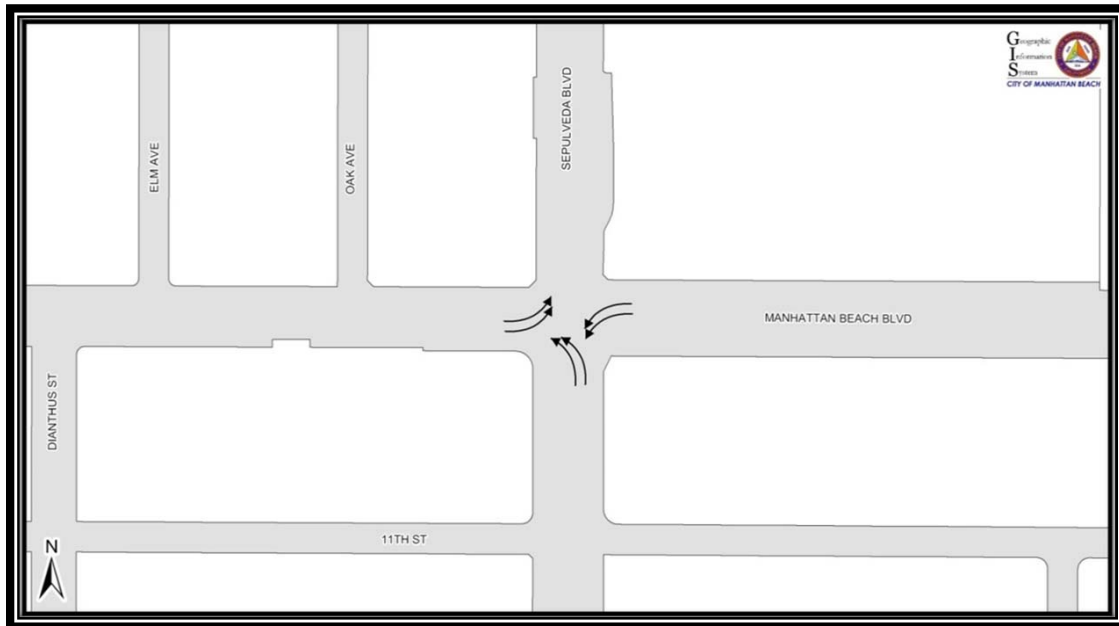
Project Title: Dual Left-Turn Lanes on Manhattan Beach Boulevard at Sepulveda Boulevard, EB to NB, NB to WB, WB to SB (SBHP Grant)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Proposition C (SBHP Grant)	\$ 1,244,681	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,244,681
	TOTAL	\$ 1,244,681	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,244,681

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

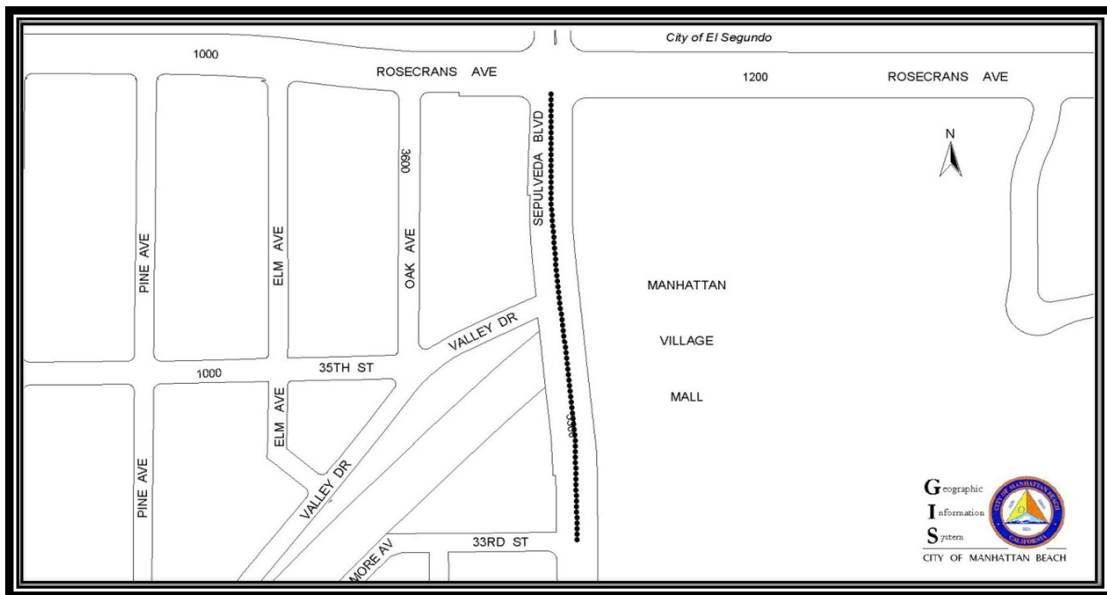
Project Title: Sepulveda Bridge Widening Project

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 Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
		Remaining funds as of 02-28-19						
	Proposition C (SBHP Grant)	\$ 8,692,678	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,692,678
	Proposition C (MTA Call Grant)	\$ 6,697,261	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,697,261
	Proposition C (Prop C Local)	\$ 2,632,251	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,632,251
	TOTAL	\$ 18,022,190	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,022,190

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Proposition C (SBHP Grant)	\$ 985,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 985,440
	TOTAL	\$ 985,440	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 985,440

Location

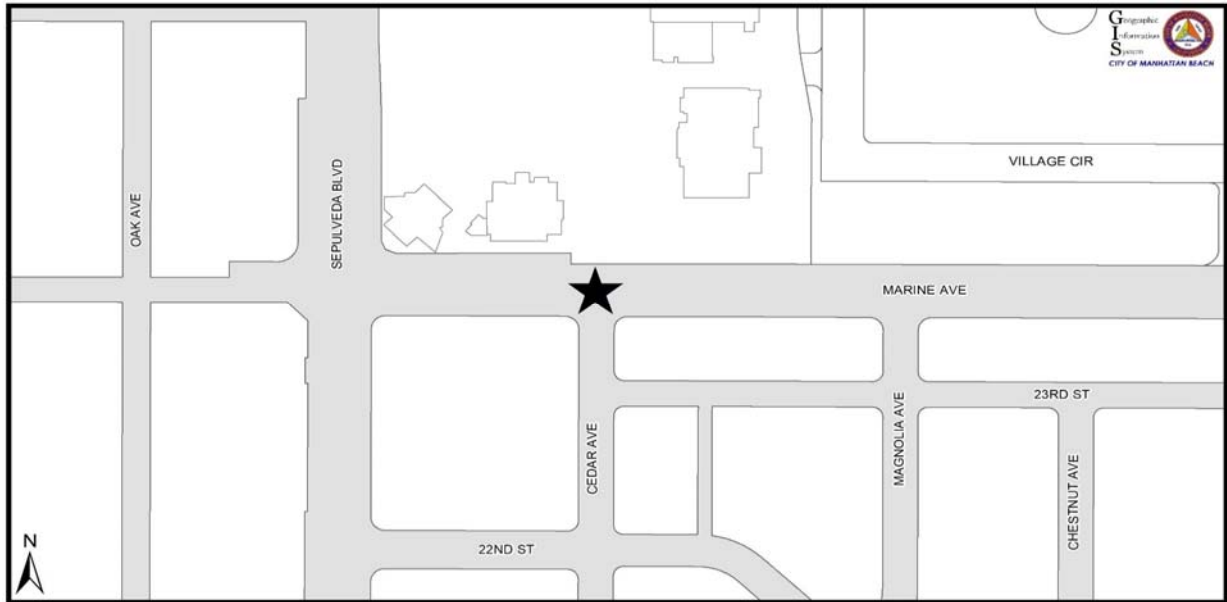
Map:

Map located on next page

**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
Summary Sheets**

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

**Location
Map:**



City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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 Msr R and Msr M

Carryover Project #: 15825E

Original Funding Year: 2014-15

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

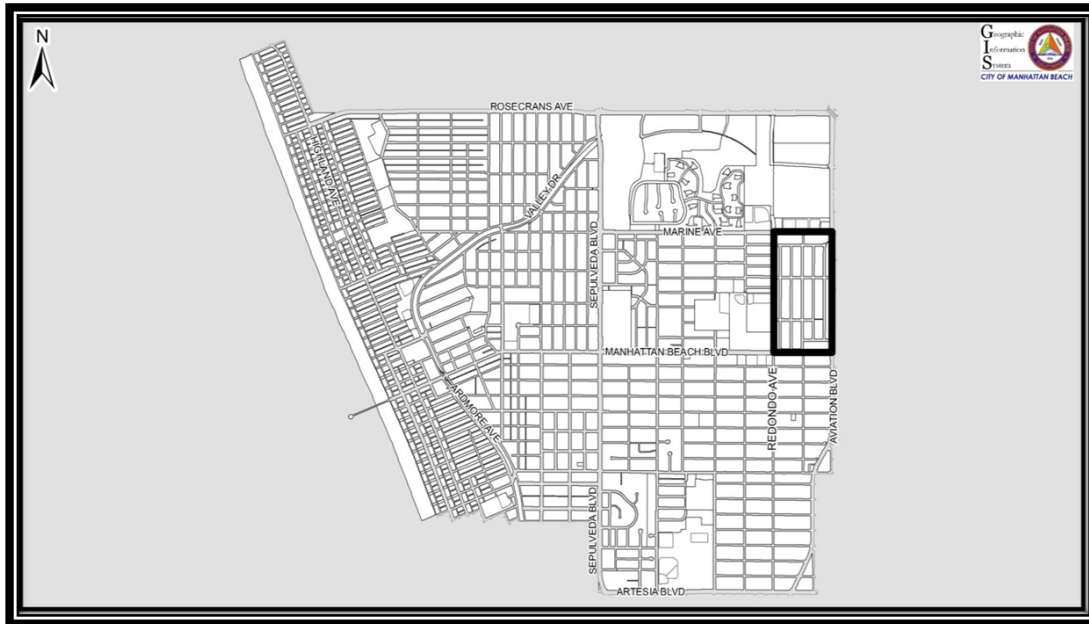
Project Title: Street Resurfacing Project: Liberty Village

Description: Cold mill of 2 1/2" of existing asphalt and a new asphalt overlay; full depth removal and replacement of miscellaneous failed areas; replacement of all displaced curb and gutter; replacement of striping and pavement markings.

Justification: The recent Pavement Management study has identified streets in the Liberty Village area as "Poor." The streets in this area were originally constructed in the 1950's and show signs of severe "alligator cracking." City Staff often perform street maintenance repairs in this area.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R Local Return	\$ 748,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 748,905
	Measure M Local Return	\$ 275,000						\$ 275,000
	TOTAL	\$ 1,023,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,023,905

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2020-2024 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 St/Hwy, Prop C, Msr R & M

Carryover Project #: 19102E

Original Funding Year: 2018-19

General Plan Element Goals: I-1, I-2, I-2.3, I-6

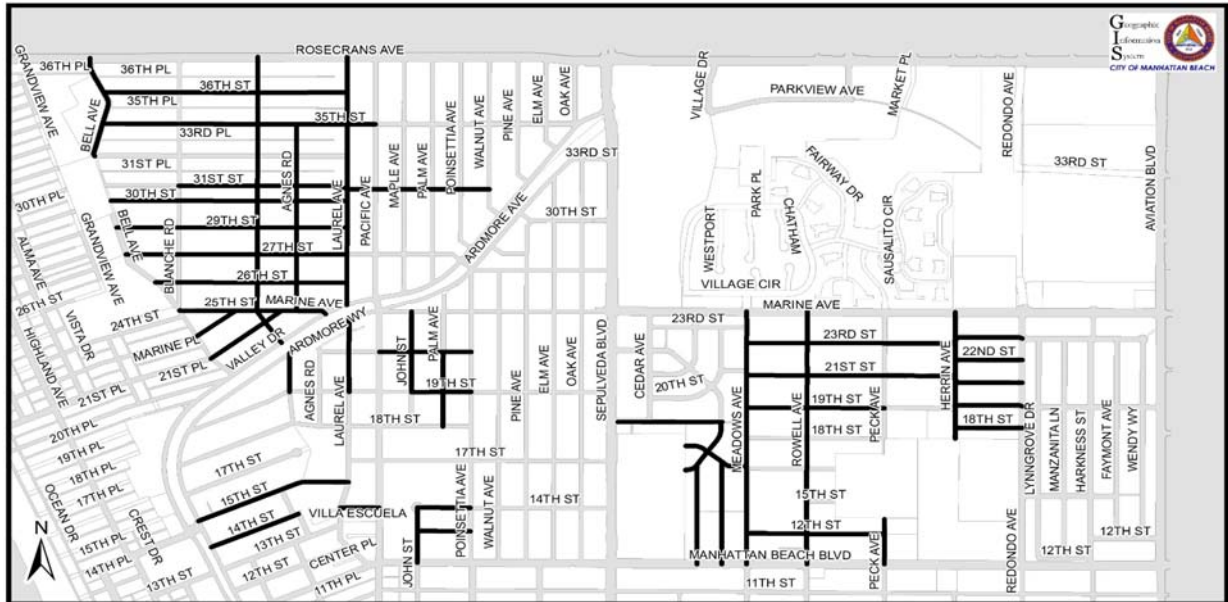
Project Title: Annual Street Resurfacing Program

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Hwy Fund		\$ 375,000	\$ 500,000		\$ 1,000,000		\$ 1,000,000	\$ 2,875,000
Prop C		\$ 700,000	\$ 400,000	\$ 800,000		\$ 1,200,000		\$ 3,100,000
Measure R				\$ 400,000		\$ 800,000		\$ 1,200,000
Measure M					\$ 600,000		\$ 800,000	\$ 1,400,000
TOTAL		\$ 1,075,000	\$ 900,000	\$ 1,200,000	\$ 1,600,000	\$ 2,000,000	\$ 1,800,000	\$ 8,575,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

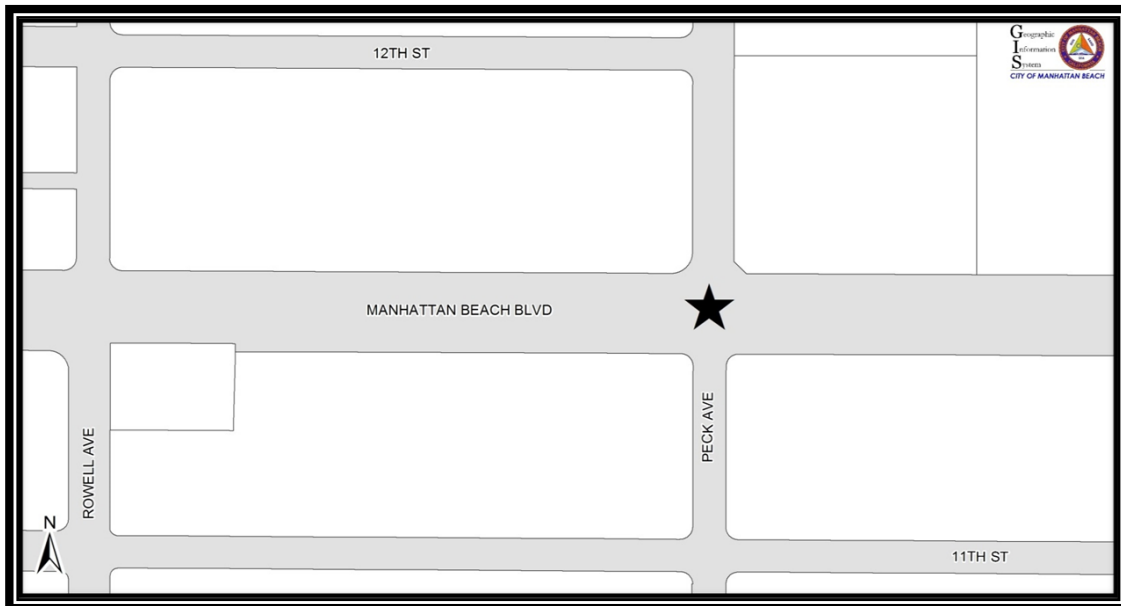
Project Title: Protected Left-Turns: Manhattan Beach Blvd. at Peck Ave.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R	\$ 285,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,000
	Local Return							
	TOTAL	\$ 285,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R	\$ 450,000	\$ -		\$ -	\$ -	\$ -	\$ 450,000
	Local Return							
	TOTAL	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 450,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R		\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ 240,000
	Local Return							
	TOTAL	\$ -	\$ 240,000	\$ -	\$ -	\$ -	\$ -	\$ 240,000

Location Map:

No map

**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

General Plan Element Goals: I-6

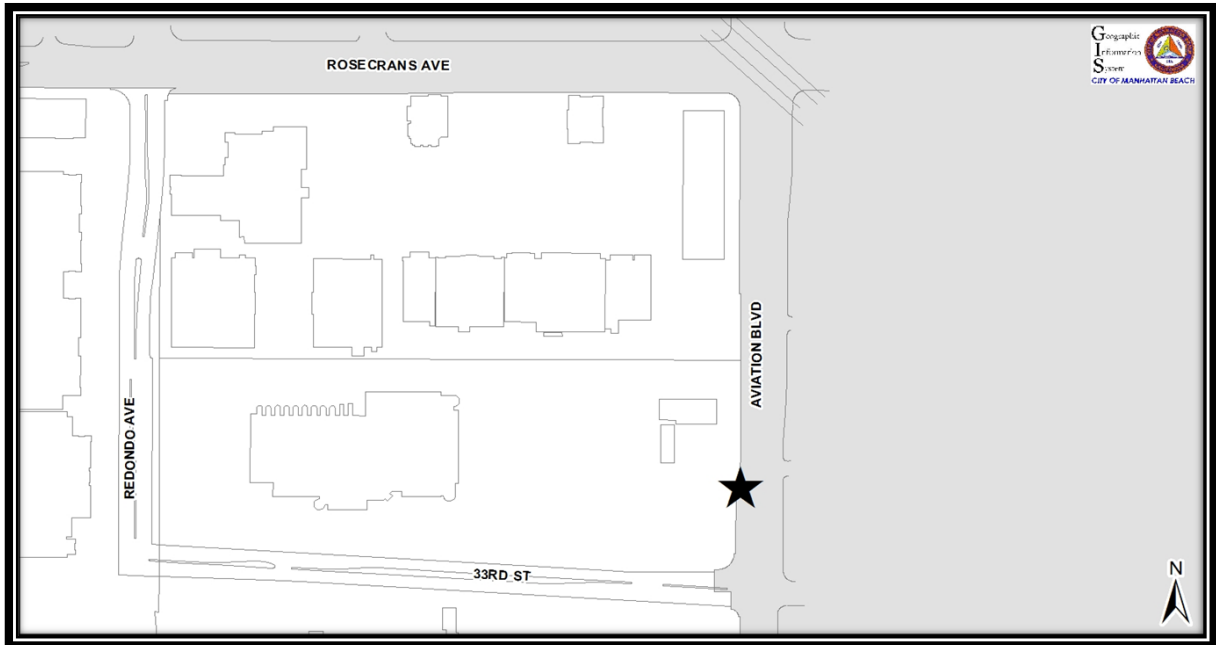
Project Title: Aviation (West-side) and 33rd Street Sidewalk

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R	\$ -	\$ 100,000	\$ 320,000		\$ -	\$ -	\$ 420,000
	Local Return							
	TOTAL	\$ -	\$ 100,000	\$ 320,000	\$ -	\$ -	\$ -	\$ 420,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 18101E

Original Funding Year: 2017-18

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

Project Title: ADA Transition Plan within Public Rights of Way

Description: To identify all physical barriers that limit the accessibility of programs, activities, or services to individuals with disabilities: list detailed outline of methods to be utilized to remove these barriers and an annual schedule for taking the necessary steps to achieve compliance with Title II of the Americans with Disabilities Act (ADA).

Justification: Federal law requires cities to develop this plan. In its development, legal protection is provided to the city while addressing efforts to improve ADA access over time.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure M	\$ 60,000		\$ -	\$ -	\$ -	\$ -	\$ 60,000
	Local Return							
	TOTAL	\$ 60,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60,000

Location

Map:

No map; locations to be determined in Plan

City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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 Msr R and Msr M

Carryover Project #: 15825E

Original Funding Year: 2014-15

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

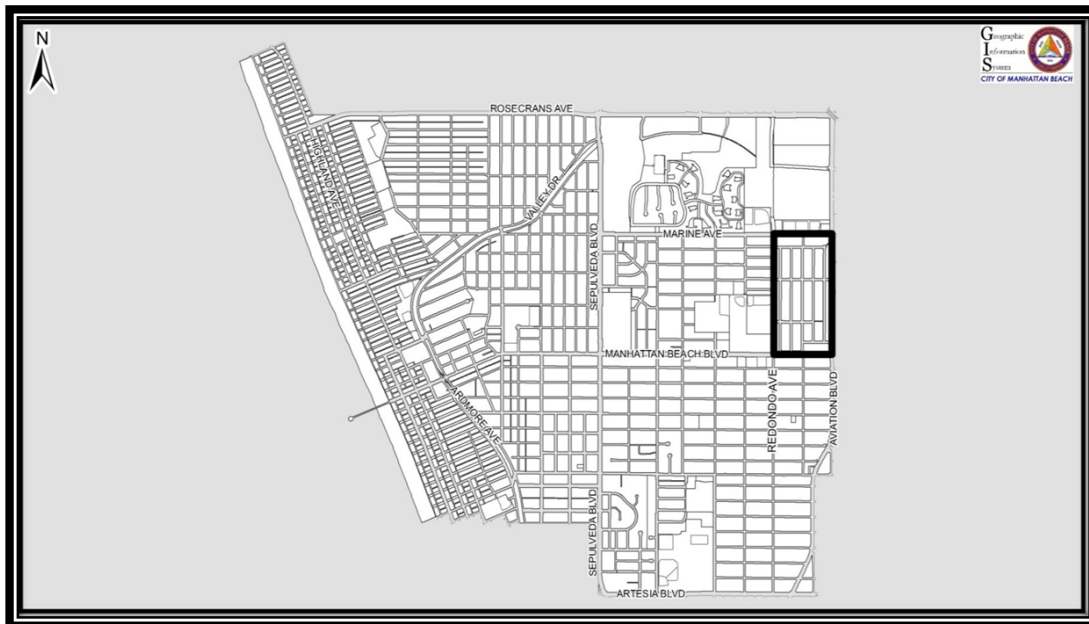
Project Title: Street Resurfacing Project: Liberty Village

Description: Cold mill of 2 1/2" of existing asphalt and a new asphalt overlay; full depth removal and replacement of miscellaneous failed areas; replacement of all displaced curb and gutter; replacement of striping and pavement markings.

Justification: The recent Pavement Management study has identified streets in the Liberty Village area as "Poor." The streets in this area were originally constructed in the 1950's and show signs of severe "alligator cracking." City Staff often perform street maintenance repairs in this area.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure R Local Return	\$ 748,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 748,905
	Measure M Local Return	\$ 275,000						\$ 275,000
	TOTAL	\$ 1,023,905	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,023,905

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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-6

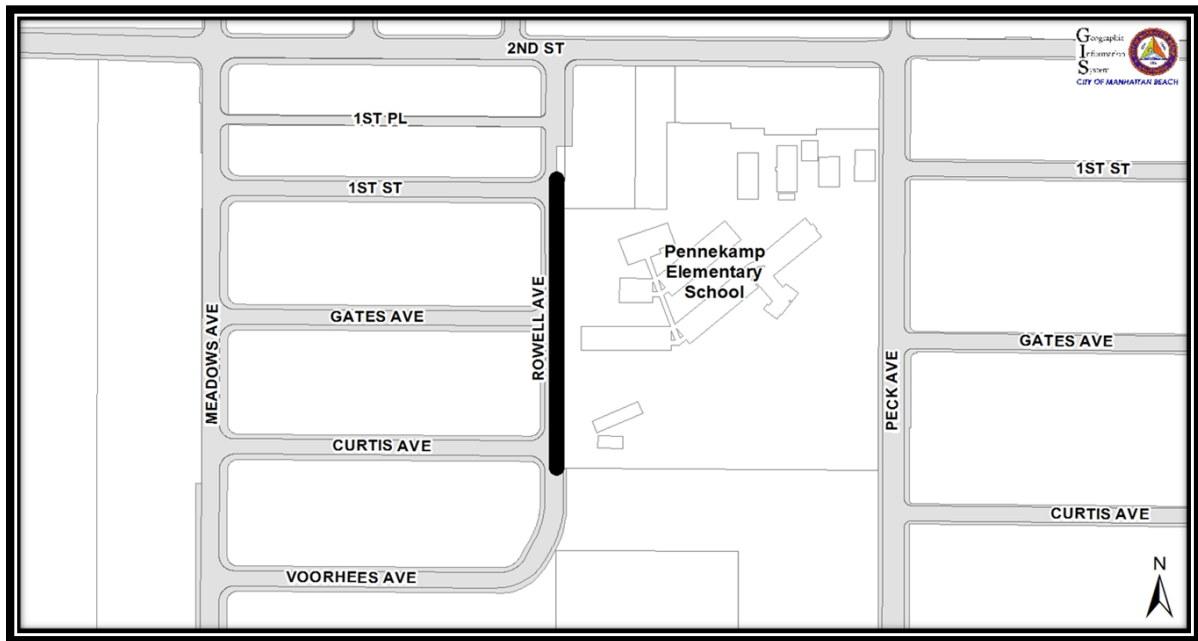
Project Title: Rowell Avenue Sidewalk Connection (Curtis & 1st St.)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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 St/Hwy, Prop C, Msr R & M

Carryover Project #: 19102E

Original Funding Year: 2018-19

General Plan Element Goals: I-1, I-2, I-2.3, I-6

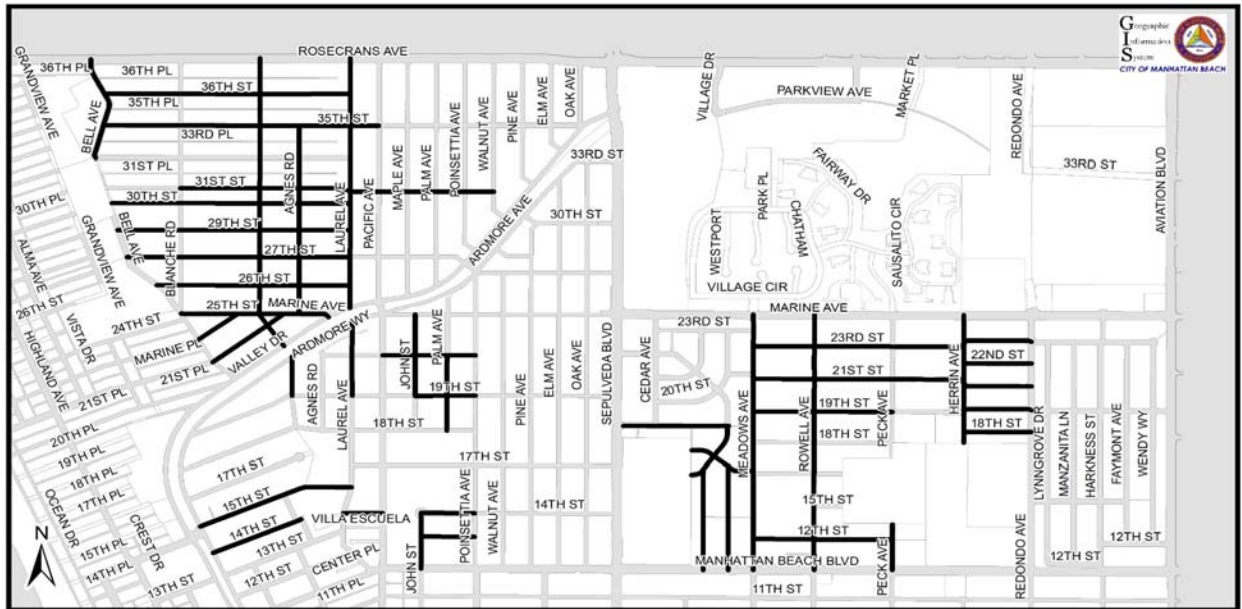
Project Title: Annual Street Resurfacing Program

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Streets & Hwy Fund		\$ 375,000	\$ 500,000		\$ 1,000,000		\$ 1,000,000	\$ 2,875,000
Prop C		\$ 700,000	\$ 400,000	\$ 800,000		\$ 1,200,000		\$ 3,100,000
Measure R				\$ 400,000		\$ 800,000		\$ 1,200,000
Measure M					\$ 600,000		\$ 800,000	\$ 1,400,000
TOTAL		\$ 1,075,000	\$ 900,000	\$ 1,200,000	\$ 1,600,000	\$ 2,000,000	\$ 1,800,000	\$ 8,575,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

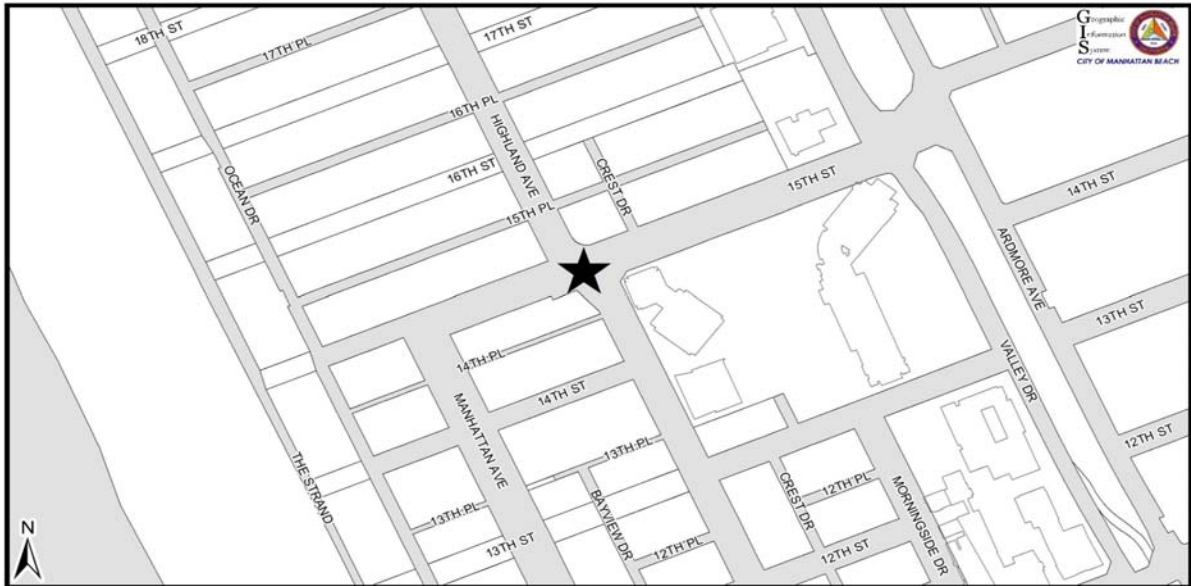
Project Title: Traffic Signal Pole: 15th St. and Highland Ave.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Measure M	\$ -	\$ 280,000			\$ -	\$ -	\$ 280,000
	Local Return							
	TOTAL	\$ -	\$ 280,000	\$ -	\$ -	\$ -	\$ -	\$ 280,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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, roof replacement(s), replacing sealants at the perimeter of the windows, HVAC replacement, bathroom repairs, and repairing asphalt outside of the buildings.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 1,880,481	\$ 630,000	\$ 600,000	\$ 400,000	\$ 650,000	\$ 650,000	\$ 4,810,481
	TOTAL	\$ 1,880,481	\$ 630,000	\$ 600,000	\$ 400,000	\$ 650,000	\$ 650,000	\$ 4,810,481

Location

Map:

No map; various facilities Citywide

City of Manhattan Beach Capital Improvement Plan FY2020-2024 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

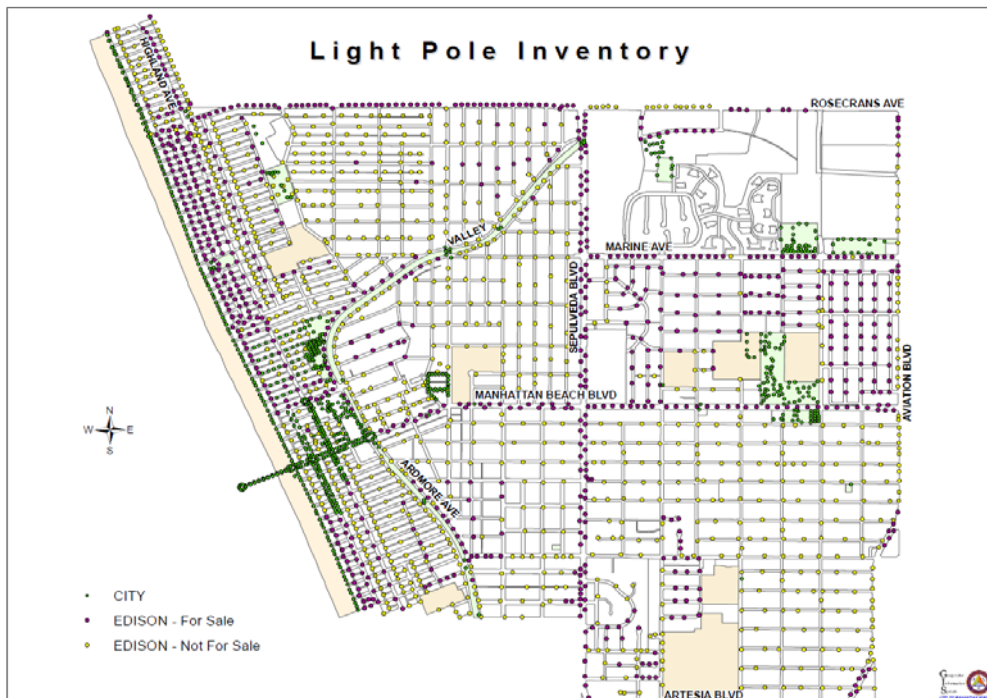
Project Title: Streetlight LED Retrofit

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 381,189	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 381,189
	TOTAL	\$ 381,189	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 381,189

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 18201E

Original Funding Year: 2017-18

General Plan Element Goals: LU-3

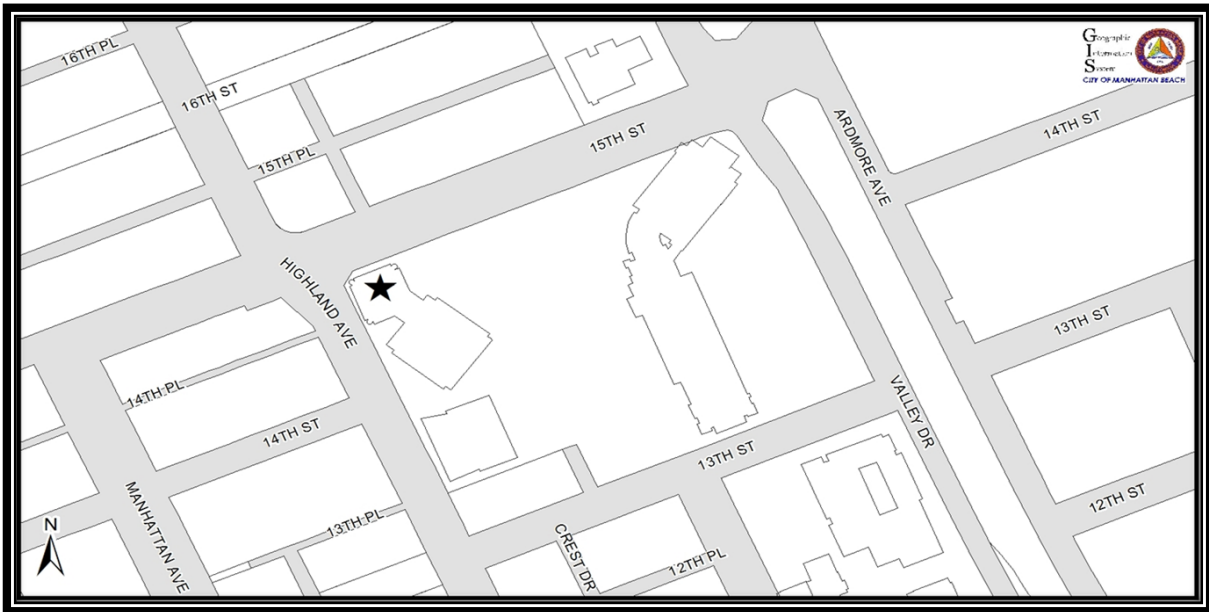
Project Title: City Hall 1st and 2nd Floor Restroom Remodel

Description: To remodel four City Hall public restrooms (2 near the Council Chambers and 2 near the Welcome Center). The project scope includes design work, rerouting plumbing, removing and/or relocating walls, installing new ADA features, a new shower and tile work. The project budget covers design costs, construction and contingency.

Justification: The four public restrooms at City Hall do not properly accommodate ADA requirements, yet are heavily utilized by the public. The project will significantly improve ADA access to these facilities. Staff proposes to use the remaining funds from the Welcome Center Remodel and supplement an additional amount to improve these public facilities.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 476,550	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 476,550
	TOTAL	\$ 476,550	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 476,550

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

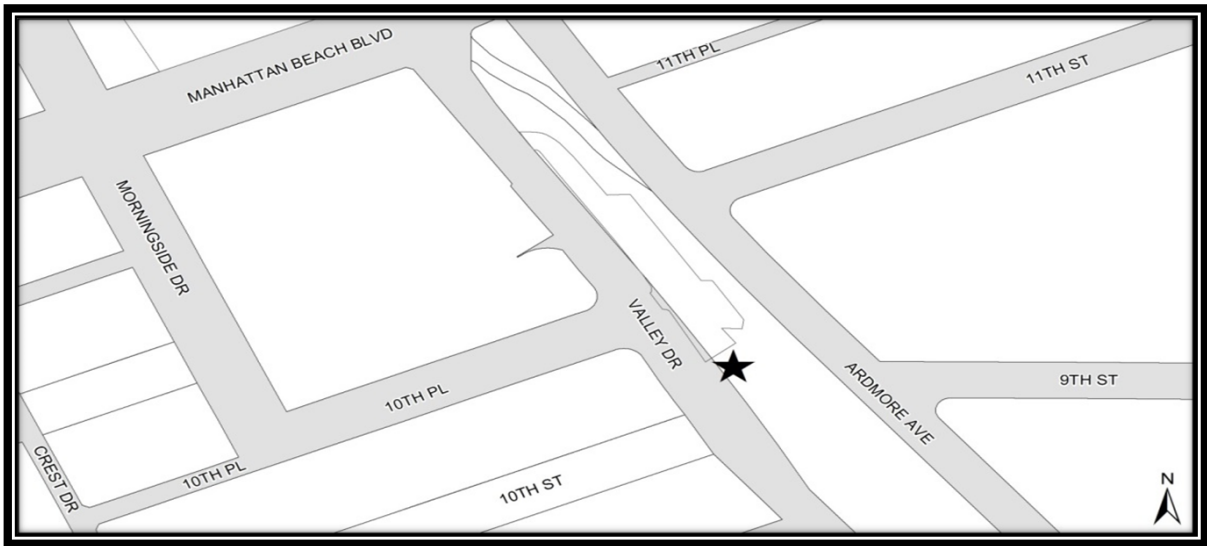
Description: Remove existing worn down and damaged fitness equipment and surfacing installation of new poured in place surfacing material and installation of all new fitness cluster equipment.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 217,500	\$ -		\$ -	\$ -	\$ -	\$ 217,500
	TOTAL	\$ 217,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 217,500

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 17201E

Original Funding Year: 2016-17

General Plan Element Goals: CR-1

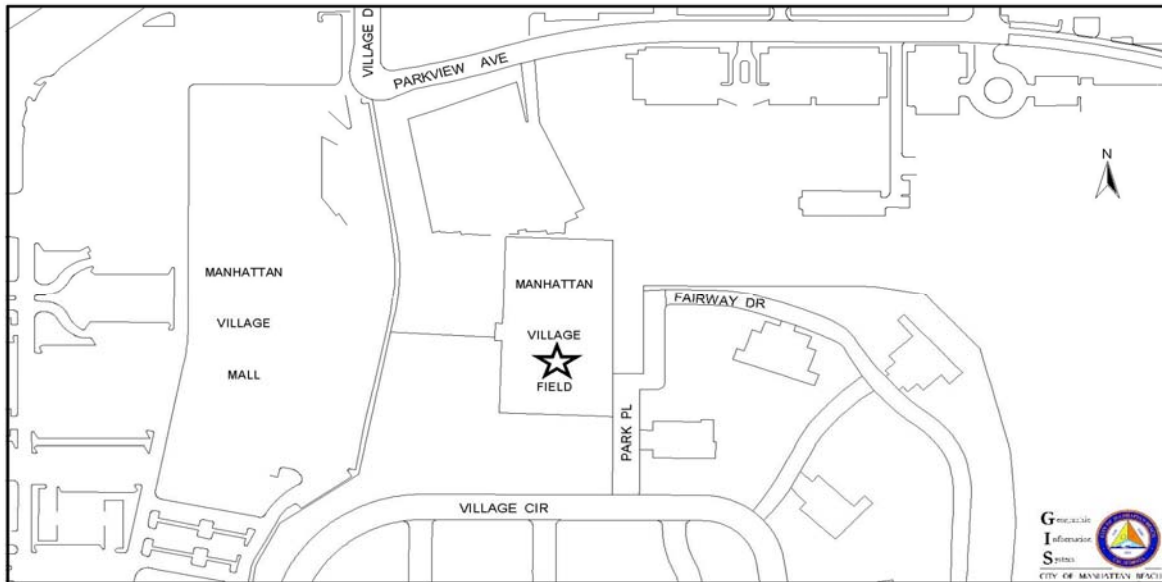
Project Title: Village Field Light Fixtures Replacement

Description: Replace the light fixtures at Village Field.

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

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 39,597	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,597
	TOTAL	\$ 39,597	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 39,597

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2020-2024 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

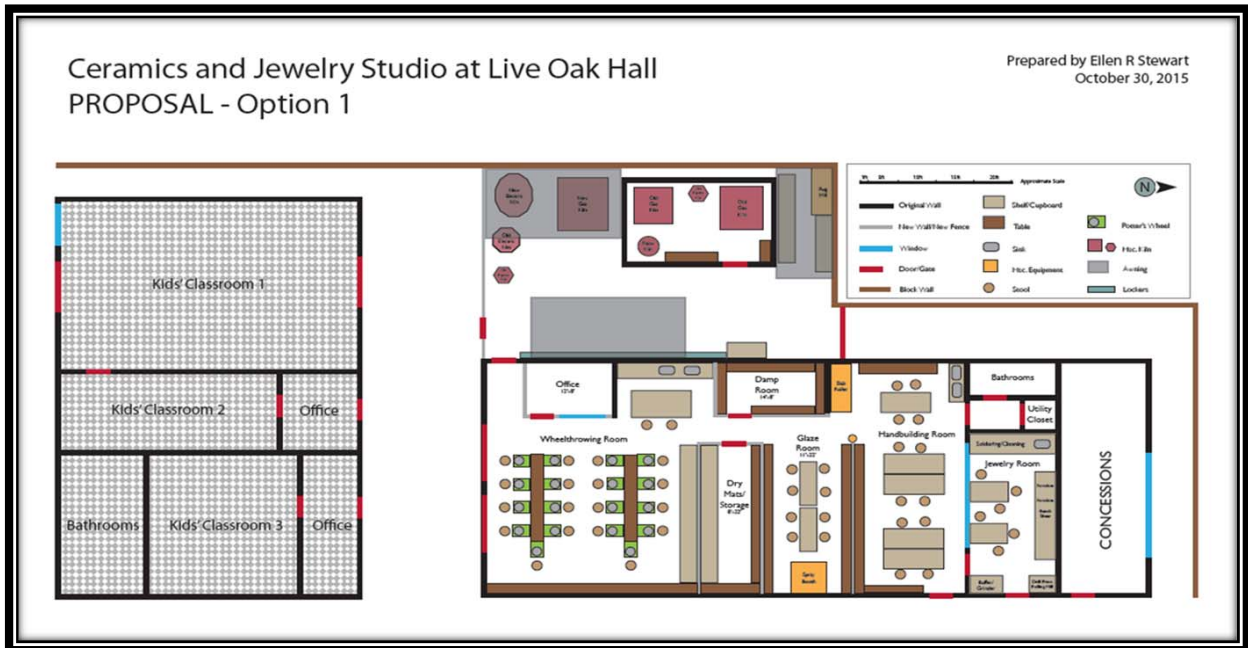
Project Title: Ceramics Studio Upgrades

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.

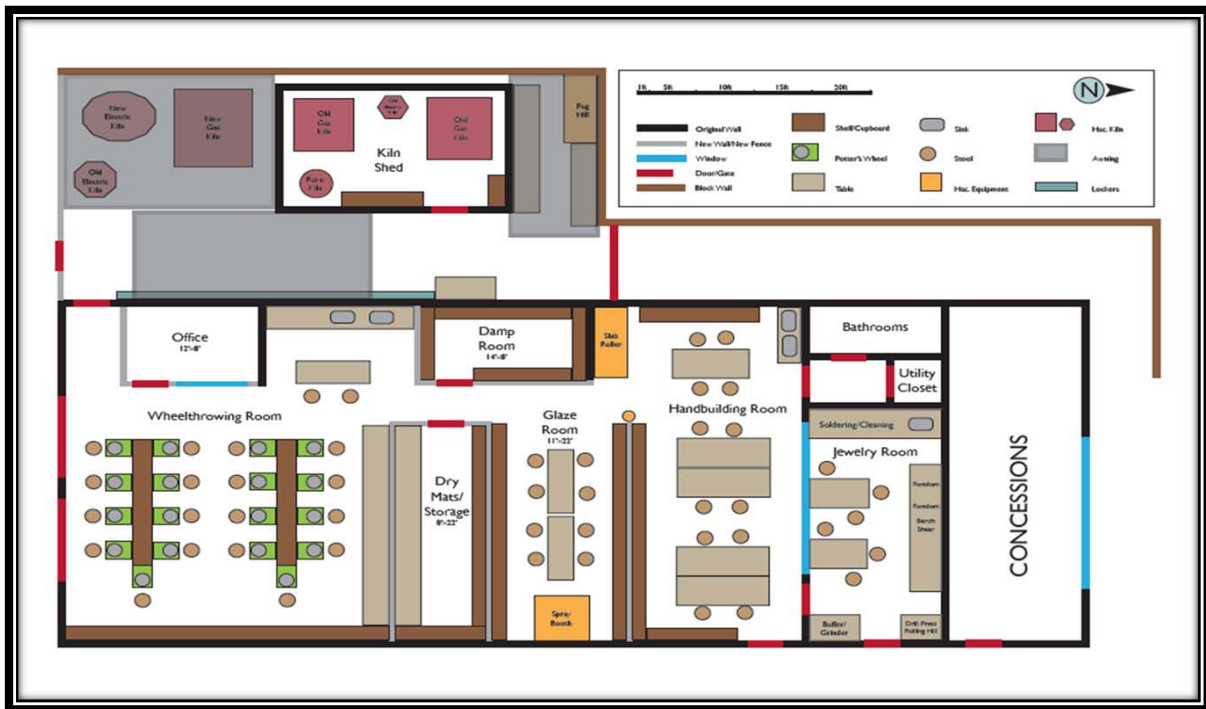
Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 267,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 267,000
	TOTAL	\$ 267,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 267,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
Summary Sheets

Project Title: Ceramics Studio Upgrades



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 16203E

Original Funding Year: 2015-16

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

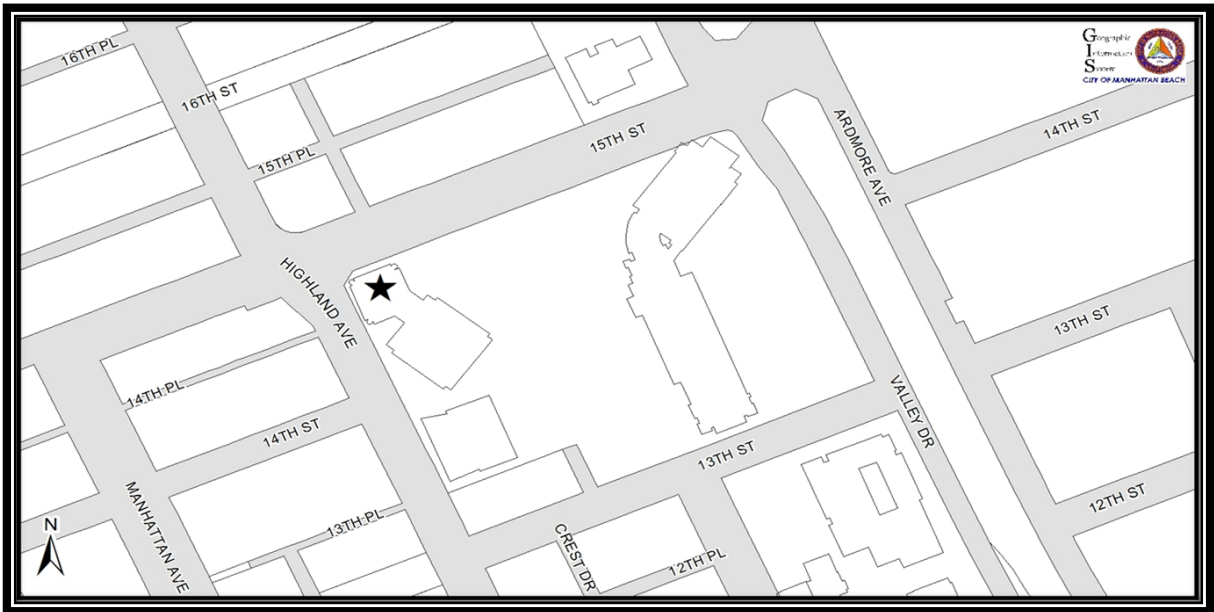
Project Title: City Hall Remodel

Description: Interior modifications at City Hall.

Justification: Interior modifications are designed to improve customer service and employee workflow.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 42,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,000
	TOTAL	\$ 42,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 16211E

Original Funding Year: 2015-16

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

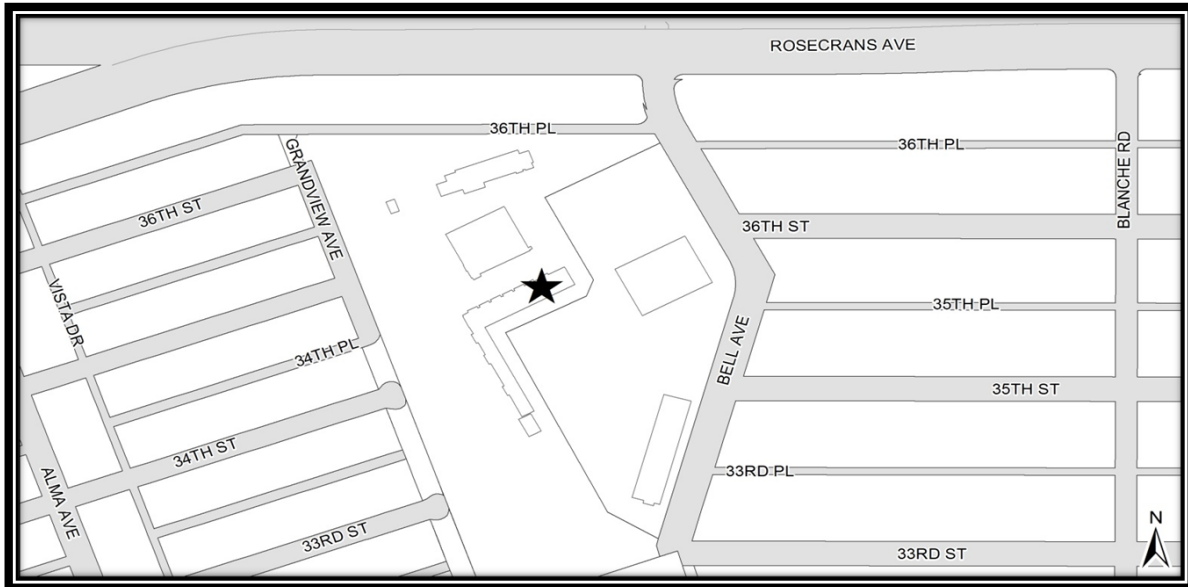
Project Title: Engineering Division Space Planning

Description: Professional design services for Engineering Division office space layout.

Justification: The existing layout of the Engineering Division offices is only marginally functional. The offices are cramped and the file storage area is of inadequate size for the materials requiring storage. The reconfiguration of the existing space along with the possibility of changing the storage space on the east side of the existing offices is the goal of the project.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 336,023		\$ -	\$ -	\$ -	\$ -	\$ 336,023
	TOTAL	\$ 336,023	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 336,023

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

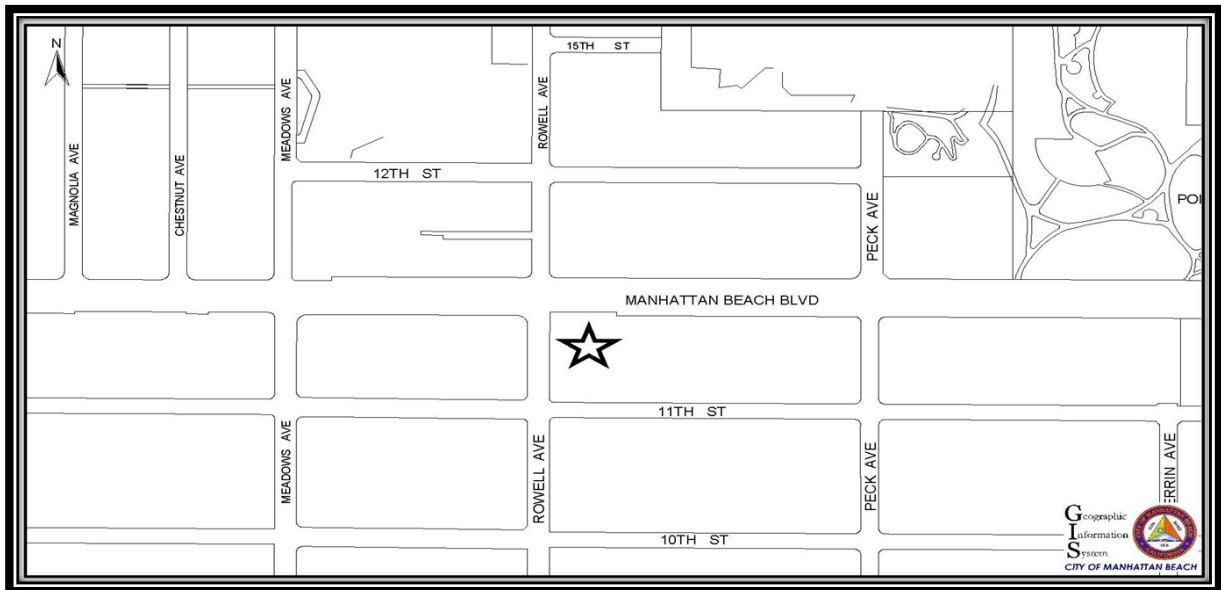
Project Title: Fire Station 2 Design Development

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 777,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 777,441
	TOTAL	\$ 777,441	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 777,441

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

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

Project Title: Senior and Scout House

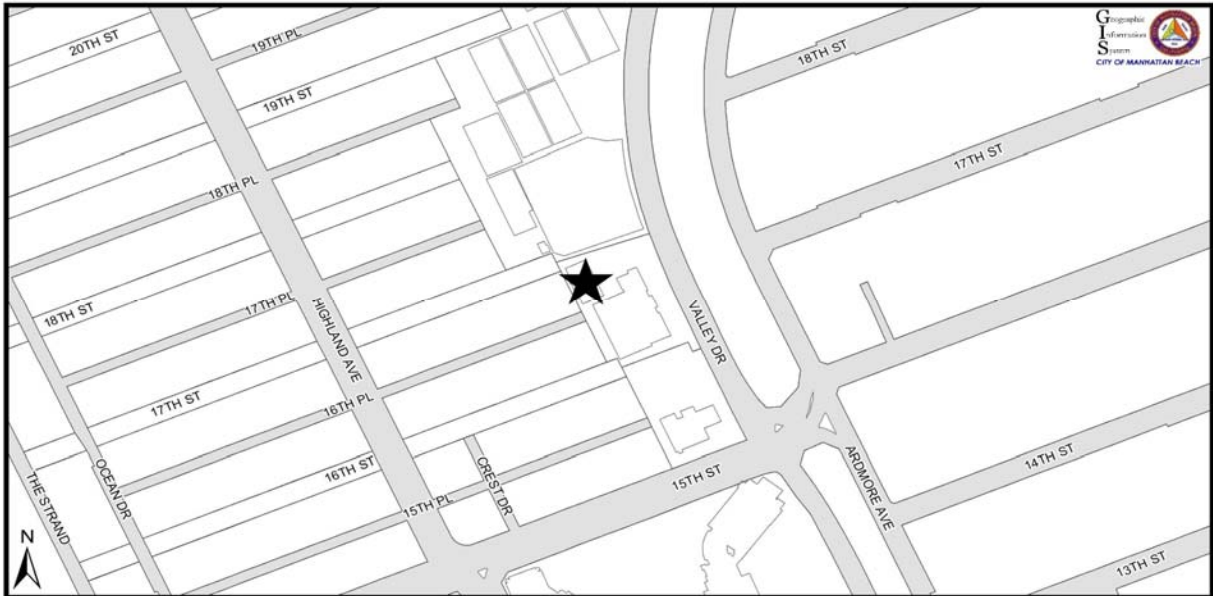
Description: Develop, design and construct a new Senior and Scout House in its current location.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 550,000	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
	TOTAL	\$ 550,000	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Location

Map:



City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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

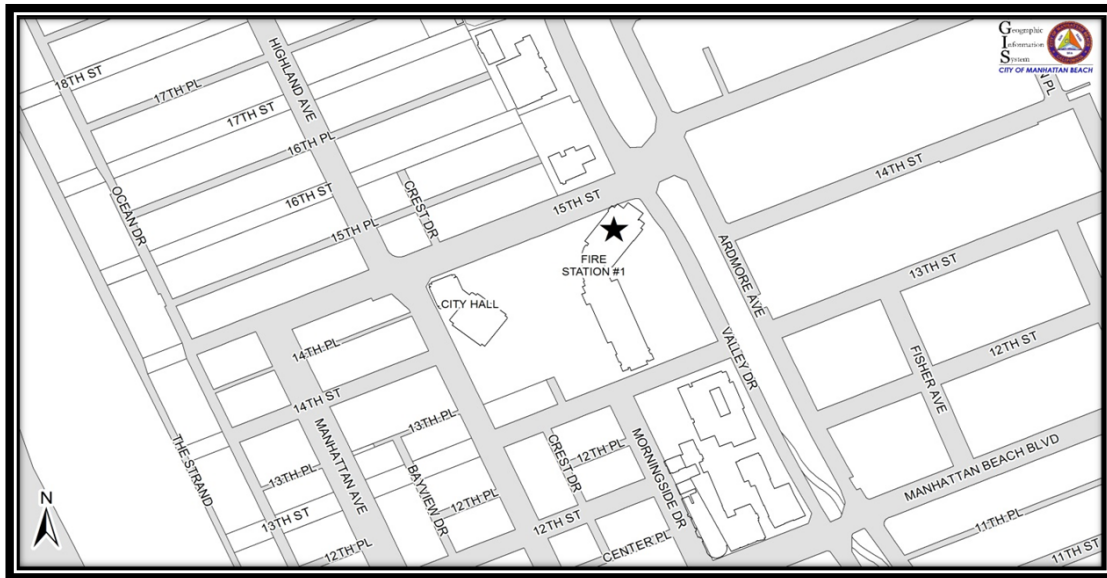
Description: Replacement of the aging fire apparatus diesel exhaust removal system.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
CIP Fund	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000
TOTAL	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000

Location Map:



City of Manhattan Beach Capital Improvement Plan FY2020-2024 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

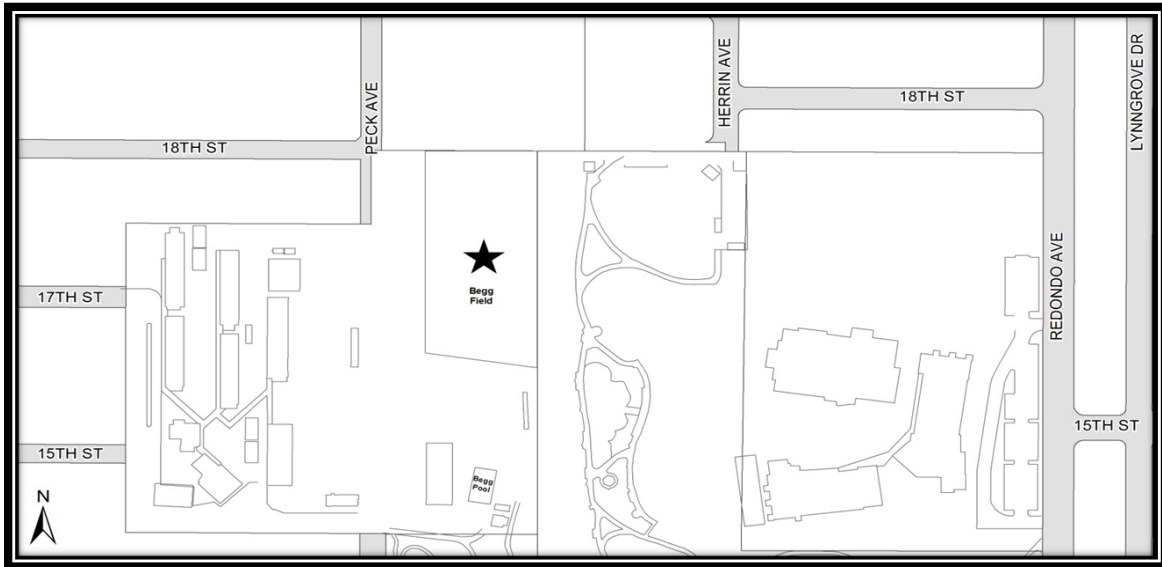
Project Title: Begg Field Improvements (Lighting, Fencing, etc.)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000
	TOTAL	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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 #: N/A

Original Funding Year: N/A

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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

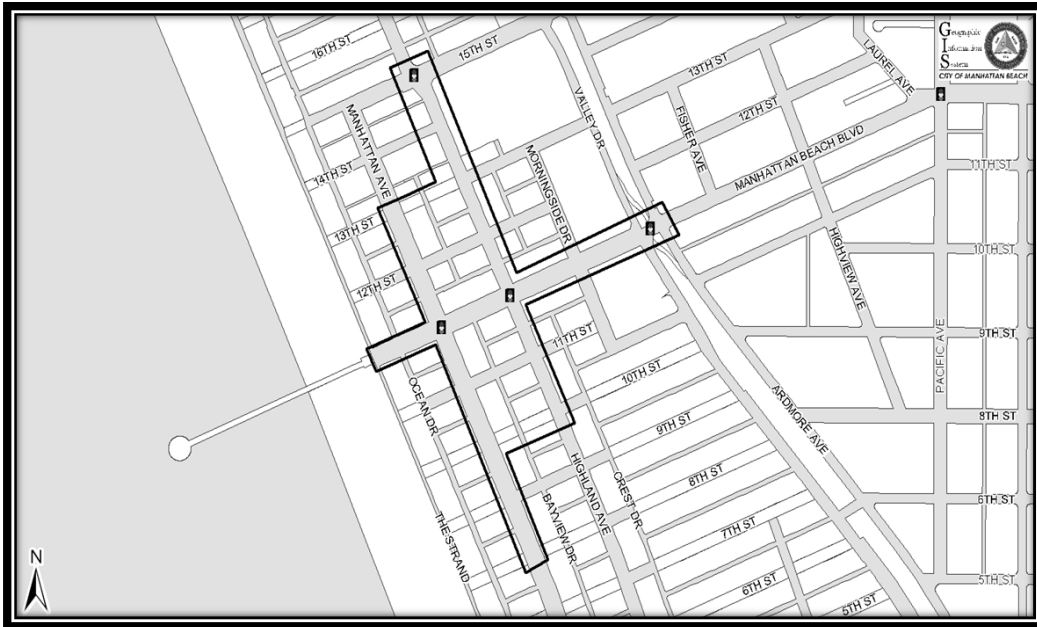
Project Title: Downtown Streetscape Improvements: Traffic Signal Pole Replacement

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 993,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 993,050
	TOTAL	\$ 993,050	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 993,050

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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

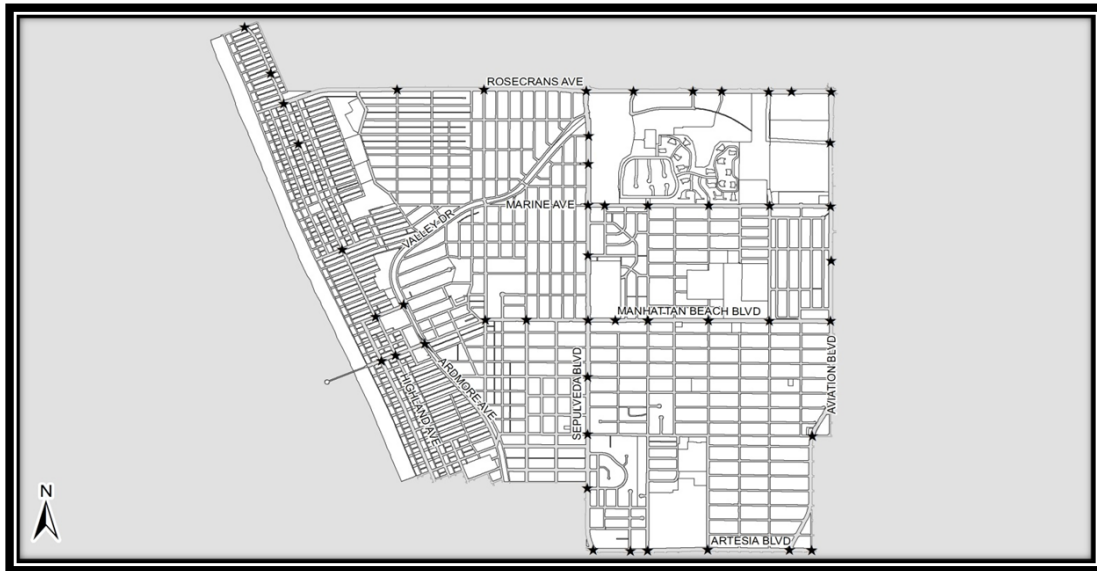
Project Title: Traffic Signal Preemption Devices

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 158,282			\$ -	\$ -	\$ -	\$ 158,282
	TOTAL	\$ 158,282	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 158,282

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20		FY2020-21		FY2021-22		FY2022-23		FY2023-24		TOTAL
	CIP Fund	\$ 7,715	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$ 507,715
	TOTAL	\$ 7,715	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$	100,000	\$ 507,715

Location

Map:

Various locations; citywide

**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 17205E

Original Funding Year: 2016-17

General Plan Element Goals: I-6

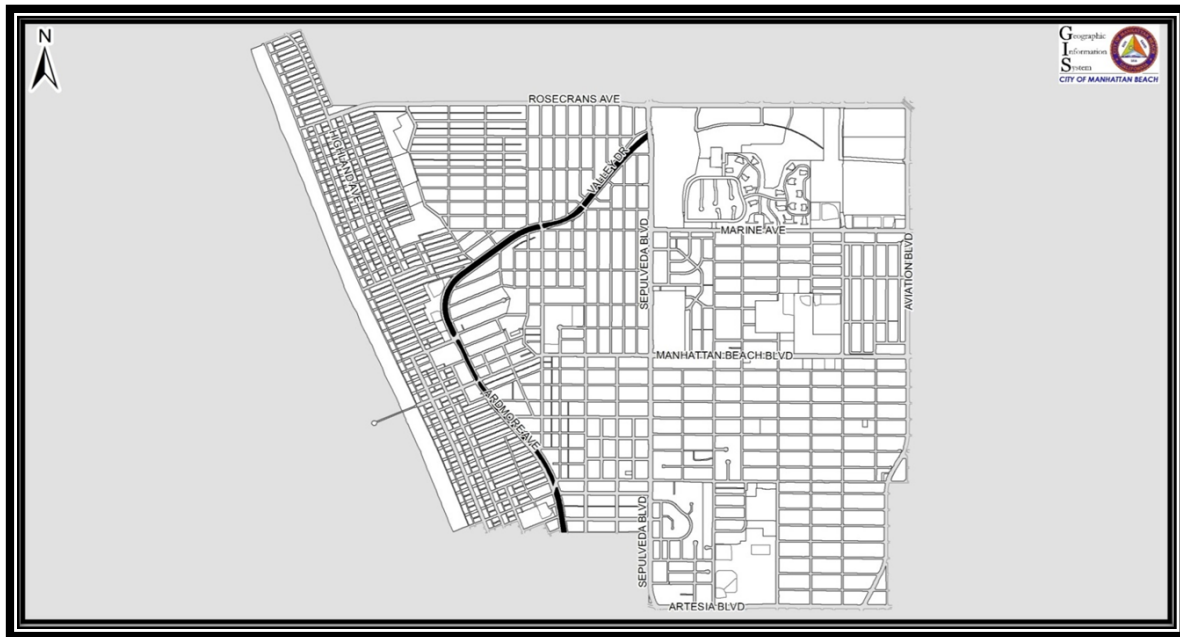
Project Title: Veterans Parkway Pedestrian Access Masterplan

Description: Conduct an evaluation of existing and recommended pedestrian crossings and connections to the Veterans Parkway and prepare design plans to construct pedestrian connections.

Justification: The Veterans Parkway Pedestrian Access Master Plan will identify gaps in the pedestrian network along the Veterans Parkway, and develop design plans to construct these connections. The improvements will be located at intersections, major side street paths, and school routes. The Plan will be based on the policy recommendations that are developed in the Mobility Plan Update. The plan will ensure that all pedestrian crossing treatments are in conformance with the "Pedestrian Crossing Enhancements Policy" contained in the Mobility Plan Update. Some of the pedestrian crossing treatments may include decorative crosswalks, new sidewalks, pedestrian ramps, flashing beacons, curb bulb-outs, lighting, traffic calming devices and pedestrian signal modifications at traffic signals. Construction of the recommended pedestrian facilities will be proposed in future CIP projects

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ 79,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 79,748
	TOTAL	\$ 79,748	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 79,748

Location Map:



City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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 #: N/A

Original Funding Year: N/A

General Plan Element Goals: CS-1, HE-3, I-1

Project Title: Roadway Safety Bollards and Barriers (concepts only)

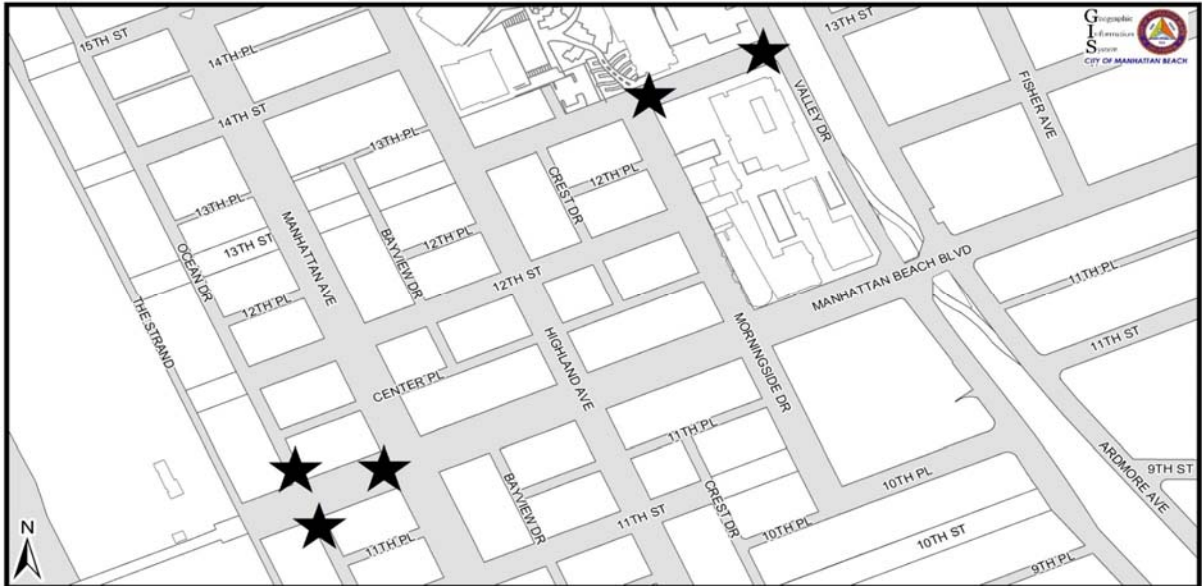
Description: Design concepts of roadway barriers at four key locations:

1) 13th Street @ Valley (west leg of intersection), 2) 13th Street @ Morningside (east leg of intersection), 3) Manhattan Beach Blvd. @ Manhattan Ave (west leg of intersection), 4) Manhattan Beach Blvd. @ Ocean Dr. (North and South leg of intersection).

Justification: To ensure safety of pedestrians in the key areas of the weekly Farmer's Market and the last block of Manhattan Beach Blvd. before reaching the Pier.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	TOTAL	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CIP Fund	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000
	TOTAL	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

General Plan Element Goals: CR-1

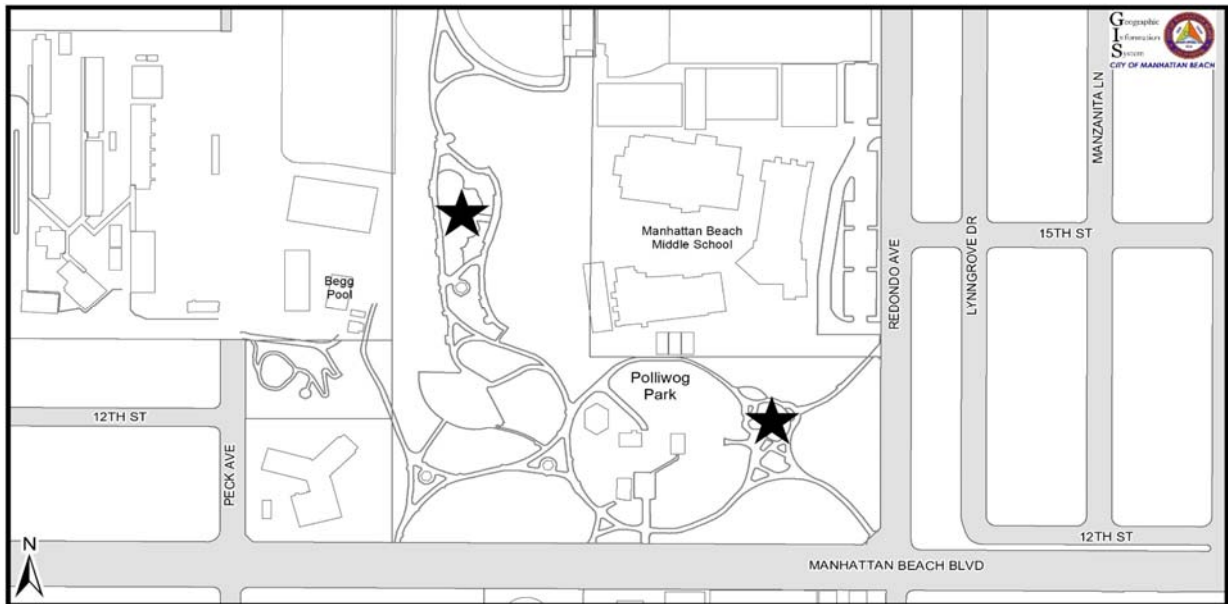
Project Title: Polliwog Playground Resurfacing & Equipment Replacement (Prop A/CIP)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Prop A		\$ 600,000		\$ -	\$ -	\$ -	\$ 600,000
	CIP		\$ 400,000					\$ 400,000
	TOTAL	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

General Plan Element Goals: CR-2

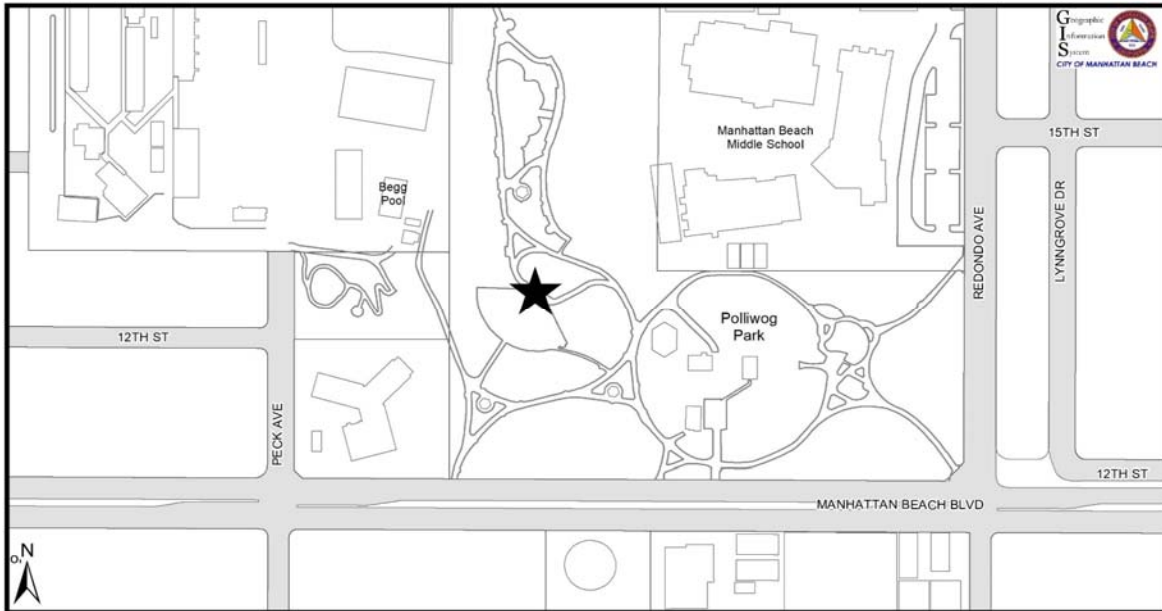
Project Title: Polliwog Band Stage (Public Art Trust Fund)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Public Art Trust Fund		\$ 100,000		\$ -	\$ -	\$ -	\$ 100,000
	TOTAL	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

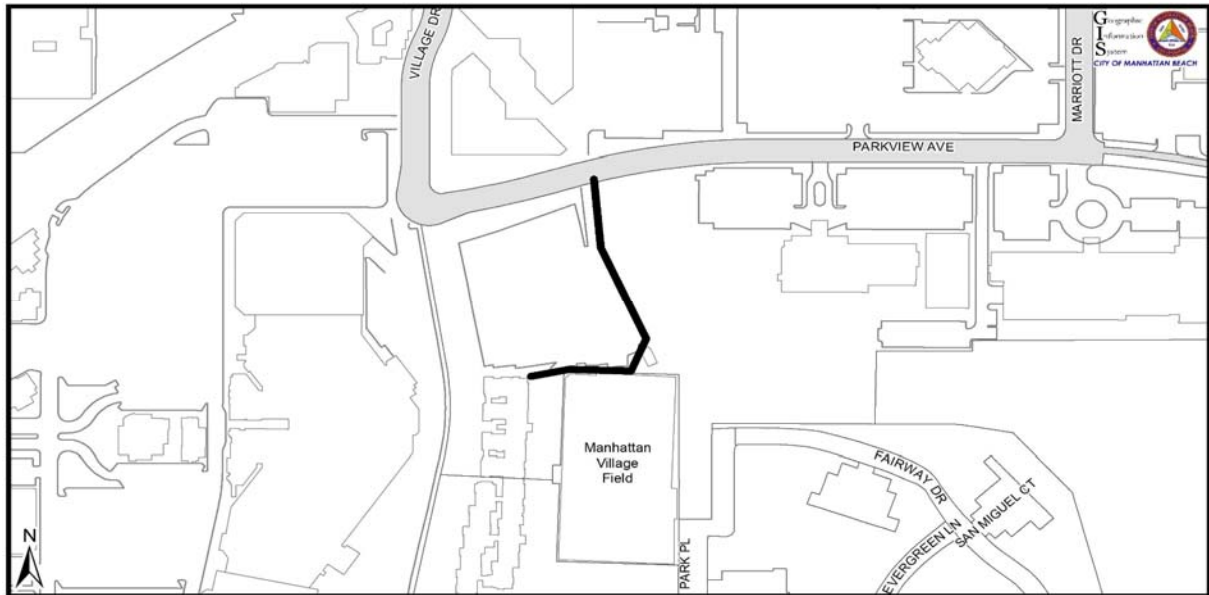
Project Title: Village Field Access Ramp: Construction (CDBG Funds)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CDBG Funds	\$ 300,000			\$ -	\$ -	\$ -	\$ 300,000
	TOTAL	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	CDBG		\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 300,000
	TOTAL	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 300,000

Location

Map:

No map; Citywide

City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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

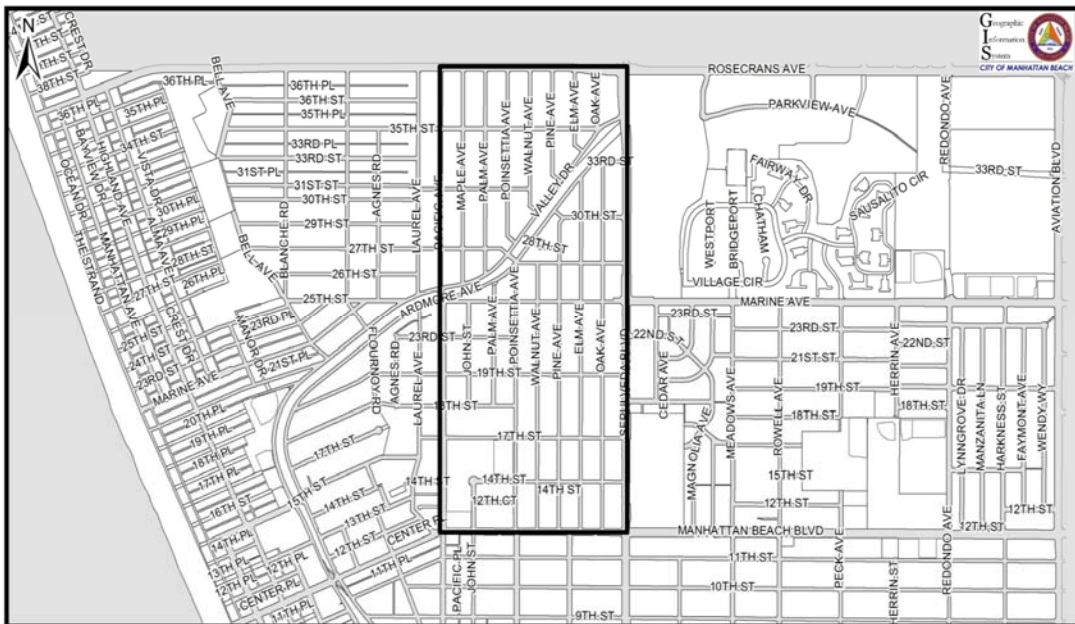
Project Title: Sepulveda Blvd./Oak Ave. Neighborhood Intrusion Study (Manhattan Village Mall)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
MV Mall		\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000
TOTAL		\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: N/A

Original Funding Year: N/A

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Streetlight Fund		\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000
	TOTAL	\$ -	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000

Location Map:

No map; Citywide

City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

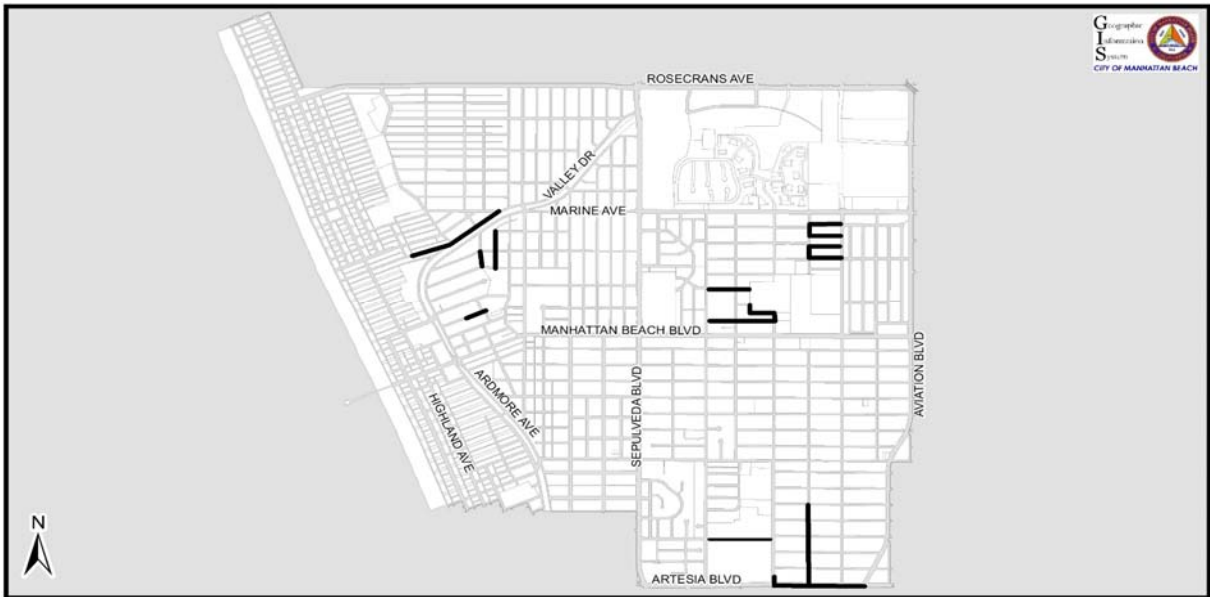
Project Title: Annual Pipe Replacement Program

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 3,100,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,000,000	\$ 2,000,000	\$ 11,600,000
	TOTAL	\$ 3,100,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 2,000,000	\$ 2,000,000	\$ 11,600,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 5,340,000		\$ -				\$ 5,340,000
	TOTAL	\$ 5,340,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,340,000

Location Map:

No map; Citywide

City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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

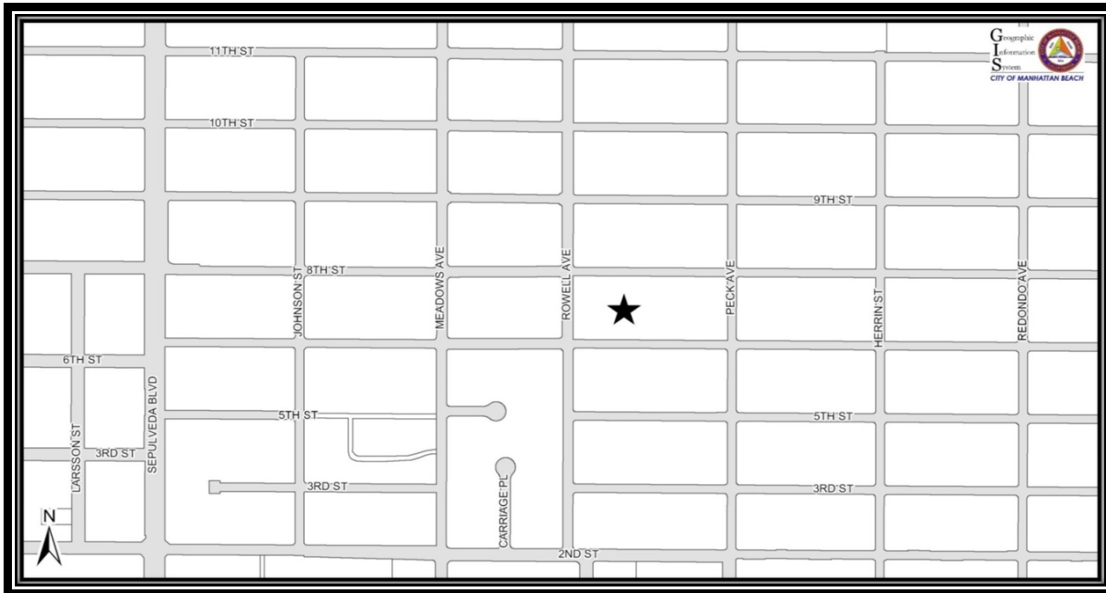
Project Title: Block 35 Ground Level Reservoir Replacement (Design Only)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 302,879	\$ -	\$ -				\$ 302,879
	TOTAL	\$ 302,879	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 302,879

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 Booster Station Improvement

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

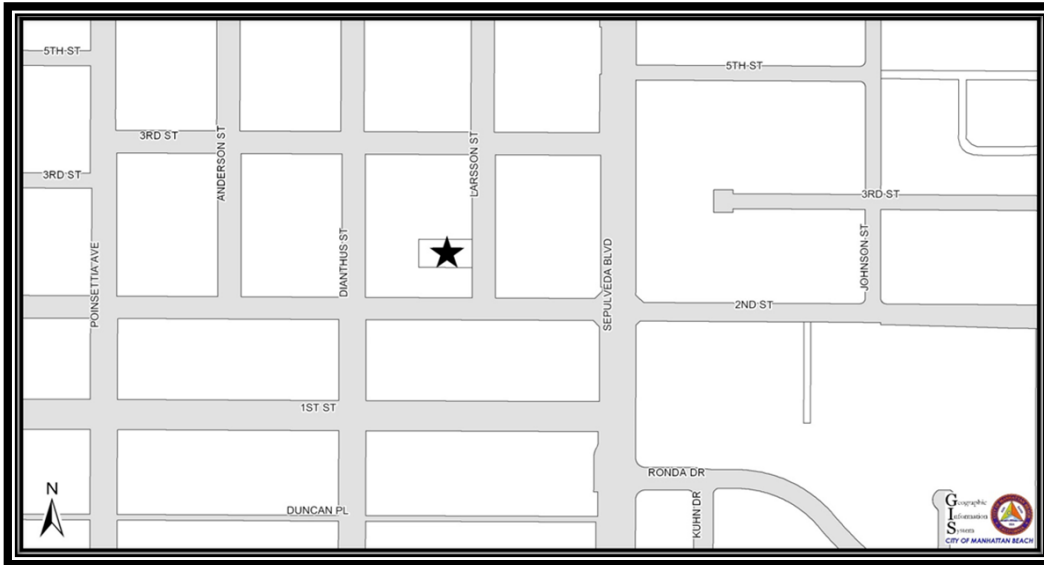
Justification: Presently the Larsson Street Pump Station consists of three electric pumps with variable speed drives. At times, all three pumps are called to provide peak domestic service and on occasion, the 2nd Street Pump Station is also called to assist. Optimally, peak domestic service should be 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.

This 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
Water Fund	\$ 745,500	\$ -	\$ -				\$ 745,500
TOTAL	\$ 745,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 745,500

**Location
Map:**



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

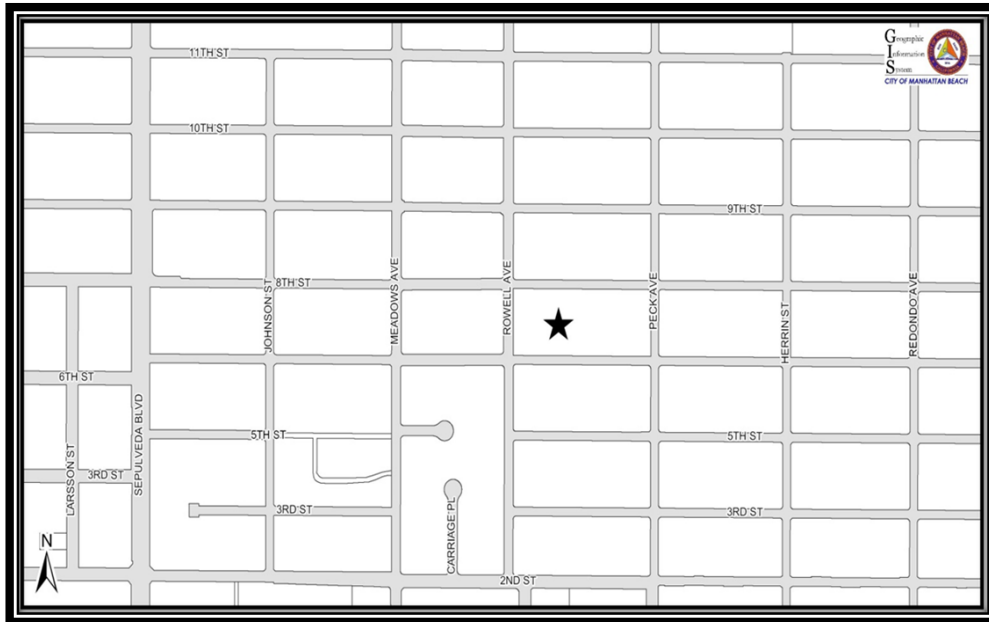
Project Title: Paint Block 35 Elevated Tank

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 841,594	\$ -	\$ -				\$ 841,594
	TOTAL	\$ 841,594	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 841,594

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

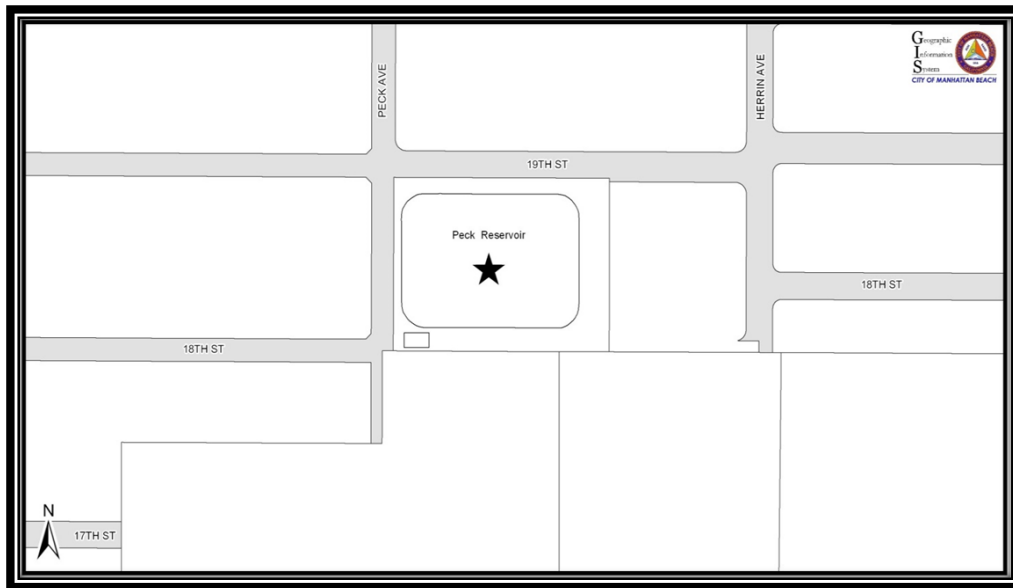
Project Title: Peck Ground Level Reservoir Replacement

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 23,110,364	\$ -					\$ 23,110,364
	TOTAL	\$ 23,110,364	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,110,364

Location Map:



City of Manhattan Beach **Capital Improvement Plan FY2020-2024** **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

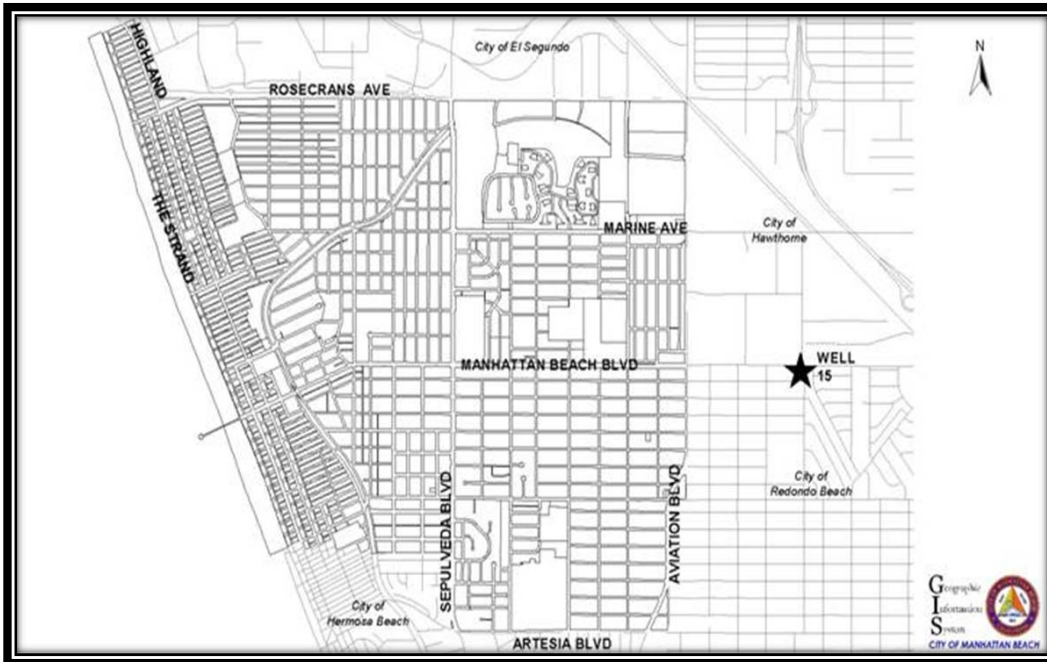
Project Title: Redrill & Equip Well 15

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 650,000	\$ -					\$ 650,000
	TOTAL	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 650,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 & Wastewater

Carryover Project #: 11834E (Water) and 11838E (WW)

Original Funding Year: 2010-11

General Plan Element Goals: I-7, I-11

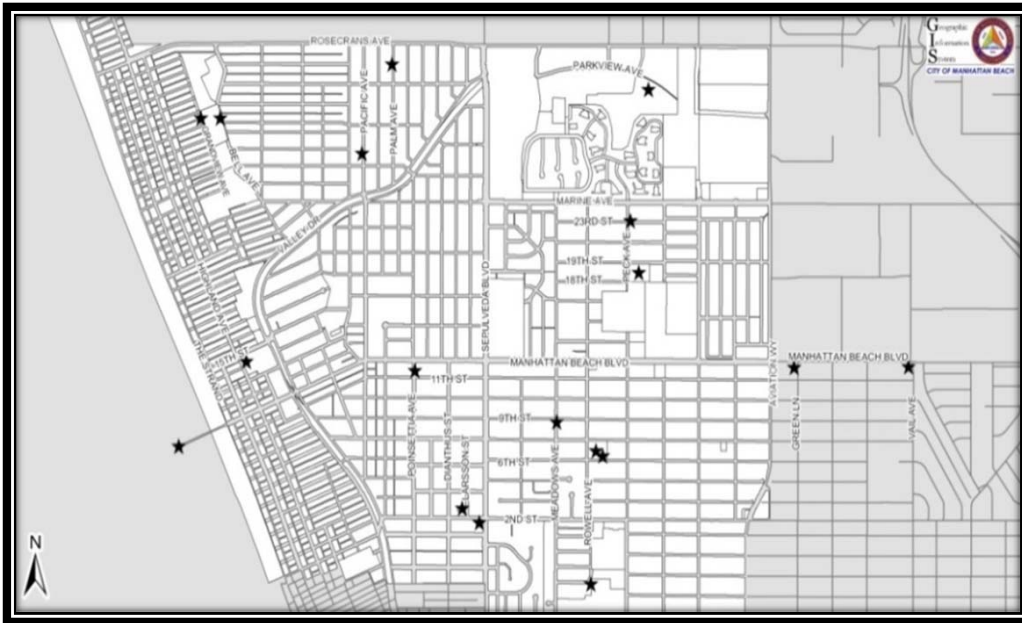
Project Title: Utility Telemetry

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 215,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,395
	Wastewater Fund	\$ 75,609	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,609
	TOTAL	\$ 291,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 291,004

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

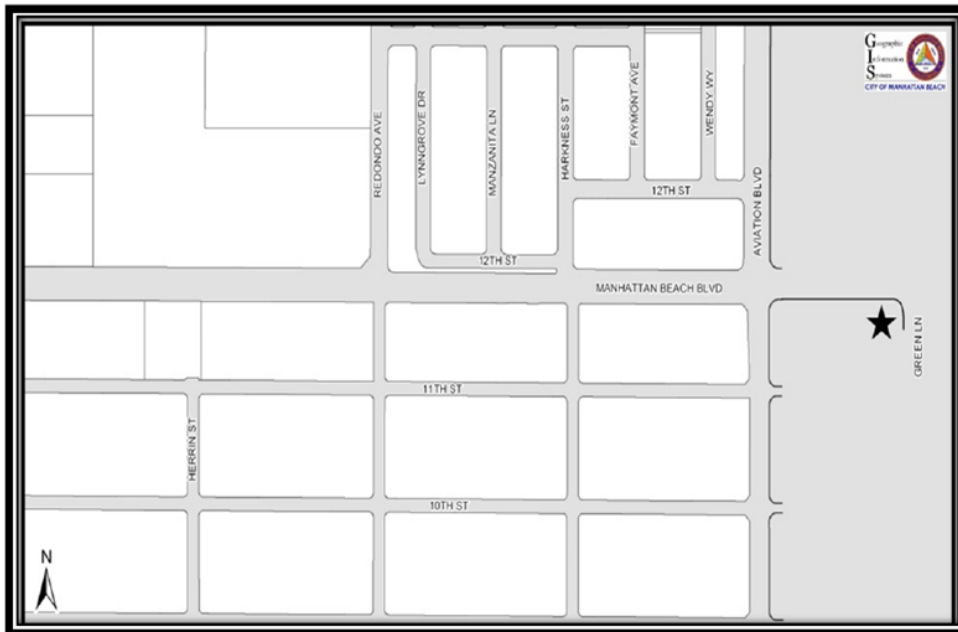
Project Title: Well 11A Variable Frequency Drive Installation

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 125,000						\$ 125,000
	TOTAL	\$ 125,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 300,000						\$ 300,000
	TOTAL	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 18302E

Original Funding Year: 2017-18

General Plan Element Goals: I-7

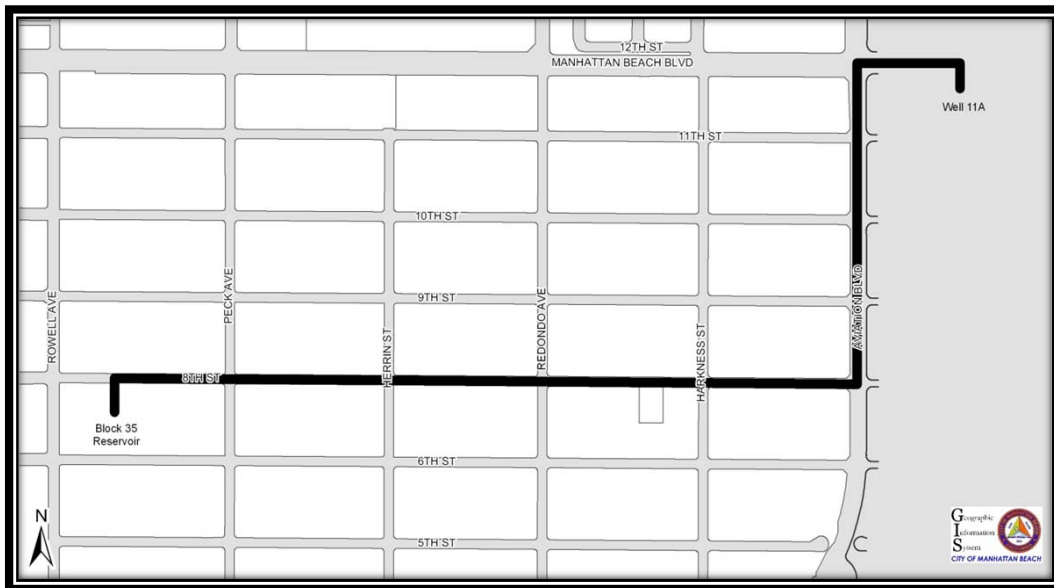
Project Title: Well Collection Line from Well 11A to Block 35 (Design Only)

Description: Prepare the design portion only of a potentially new well collection line from Well 11A to Block 35.

Justification: Design of the potentially new pipeline and attached isolation gate valves will create a hydraulic and operating redundancy whereby Well 11A water will be conveyed to the Block 35 Reservoir. Presently, Well 11A water can only be conveyed to the Peck Reservoir. The pipeline will be increased from 10 inches to 18 inches in diameter. This increase will allow for greater flow, which will allow water from both Well 11A and Well 15 to be delivered simultaneously to Block 35 Reservoir.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ 700,000	\$ -					\$ 700,000
	TOTAL	\$ 700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 700,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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

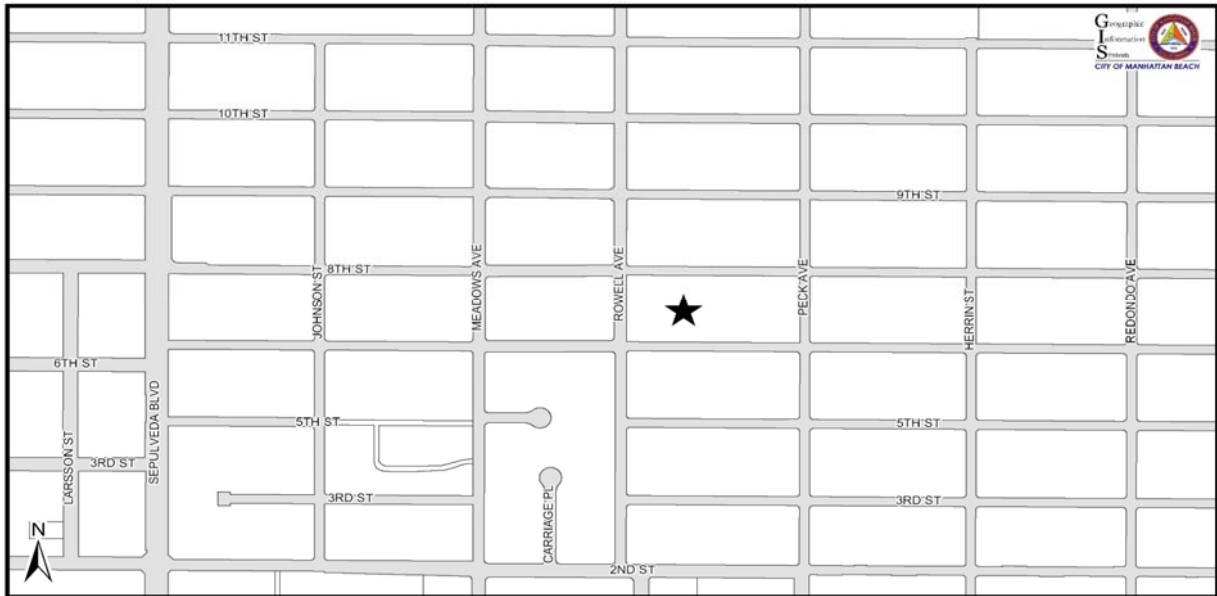
Project Title: Electronics Automation (SCADA)

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ -	\$ 200,000	\$ -		\$ -	\$ -	\$ 200,000
	TOTAL	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

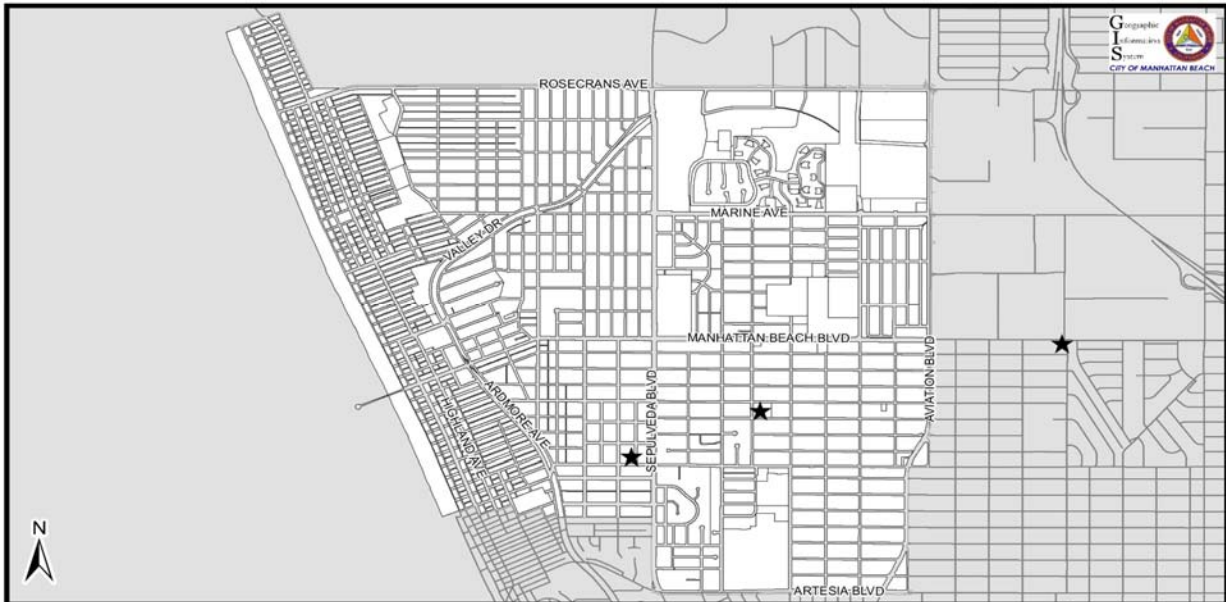
Project Title: Generator Upgrades at Larsson, Well 15 and Block 35

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Water Fund	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ -	\$ 750,000
	TOTAL	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ 250,000	\$ -	\$ 750,000

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 Debris Collection Devices

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:

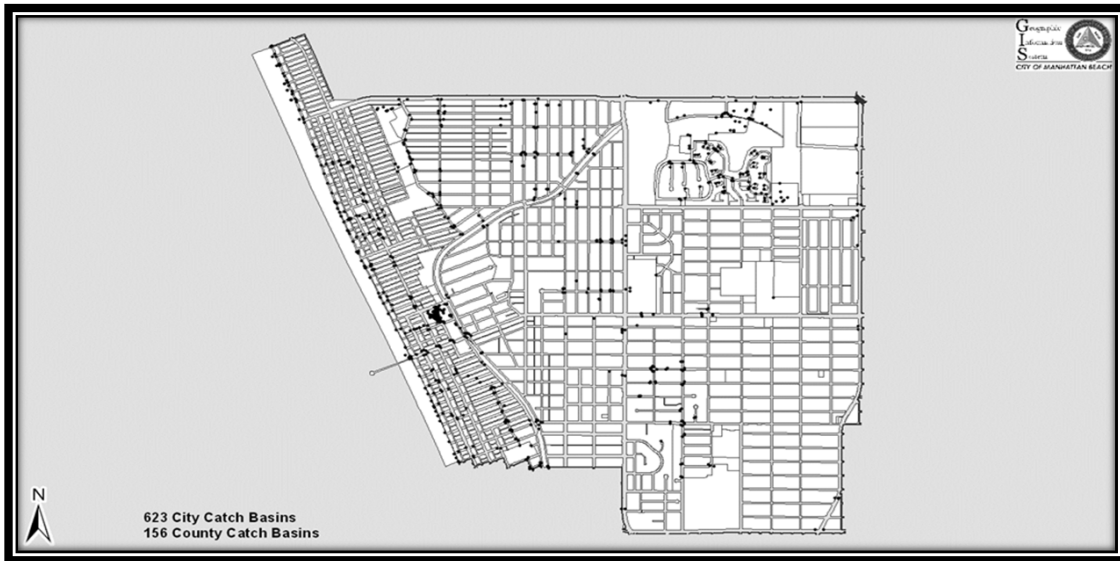
a. Install first 20% of full capture systems within 4 years of the effective date of TMDL

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Stormwater Fund	\$ 670,159	\$ 60,000		\$ 210,000	\$ 210,000	\$ 210,000	\$ 1,360,159
	TOTAL	\$ 670,159	\$ 60,000	\$ -	\$ 210,000	\$ 210,000	\$ 210,000	\$ 1,360,159

Location

Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Stormwater Fund	\$ 556,208	\$ 500,000		\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,556,208
	TOTAL	\$ 556,208	\$ 500,000	\$ -	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,556,208

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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: 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Stormwater Fund		\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000
	TOTAL	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ -	\$ 150,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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 Project: Hermosa Greenbelt

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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: LU-3, LU-4, I-9, I-12, HE-3, & CS-1

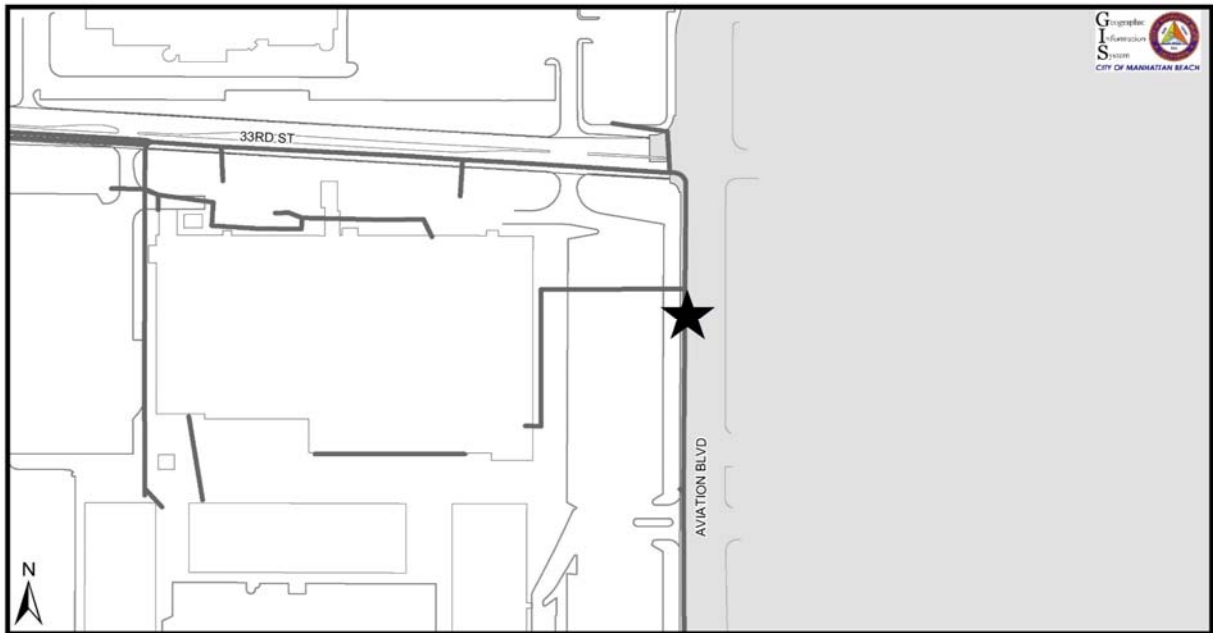
Project Title: Manhattan Village Trash Capture Device (reallocated from Refuse)

Description: Trash and sediment capture device installation for street and site runoff from Manhattan Village and surrounding areas.

Justification: The hydrodynamic separator device uses swirl concentration and continuous deflective separation to screen, separate and trap trash, debris, sediment, and hydrocarbons. The separator captures and retains almost 100% of floatables and neutrally buoyant debris, effectively removes sediment.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Stormwater Fund			\$ 710,000				\$ 710,000
	TOTAL	\$ -	\$ 710,000	\$ -	\$ -	\$ -	\$ -	\$ 710,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Wastewater Fund	\$ 1,648,200	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,500,000	\$ 7,548,200
	TOTAL	\$ 1,648,200	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,500,000	\$ 7,548,200

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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.

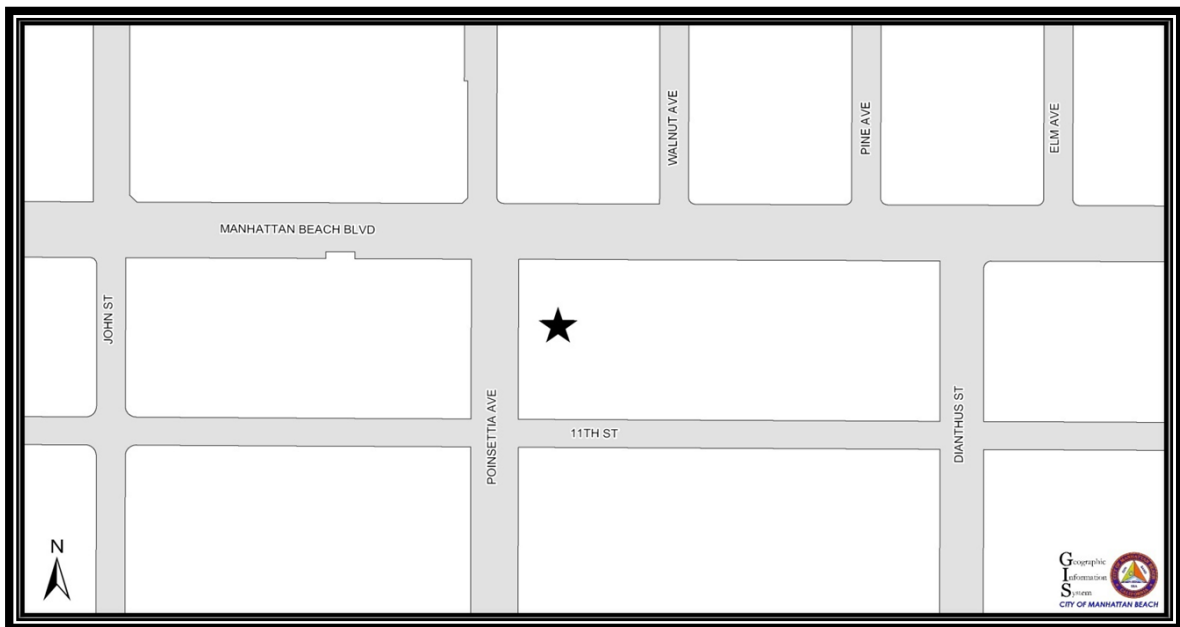
To provide the additional storage required, a new and deeper wet well must be constructed. It is possible that the existing dry/wet well could be used as the future dry well; however doing so would reduce the efficiency of the pumps and increase cavitation potential. It is recommended that a completely 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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: Pacific Lift Station Upgrade, Emergency Storage, and Force Main Replacement

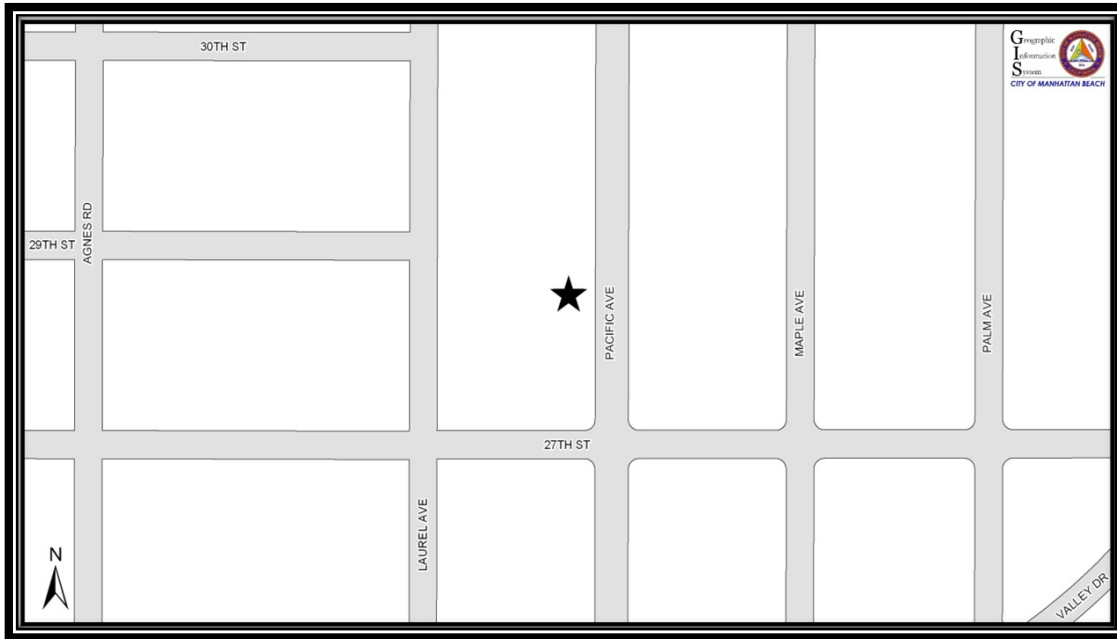
Description: Improvement of the Pacific Avenue Sewage Lift Station and installation of a second force main.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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 & Water)

Carryover Project #: 11838E (WW) and 11834E (Water)

Original Funding Year: 2010-11

General Plan Element Goals:

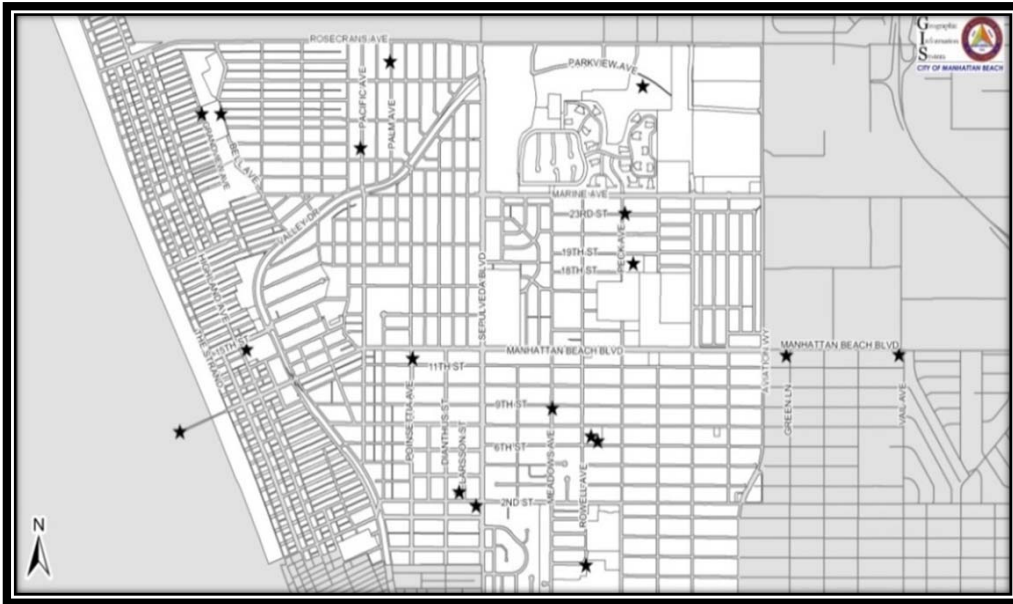
Project Title: Utility Telemetry

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Wastewater Fund	\$ 75,609	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,609
	Water Fund	\$ 215,395	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 215,395
	TOTAL	\$ 291,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 291,004

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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: Voorhees Lift Station Upgrade, Emergency Storage, and Force Main Replacement

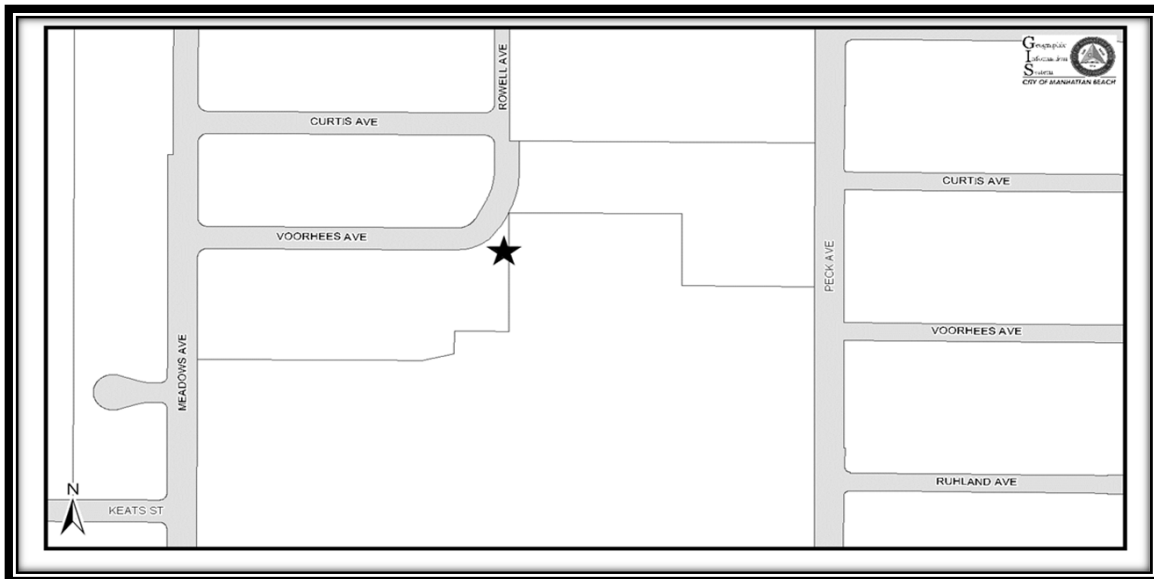
Description: Improvement of the Voorhees Sewage Lift Station and installation of a second force main.

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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.

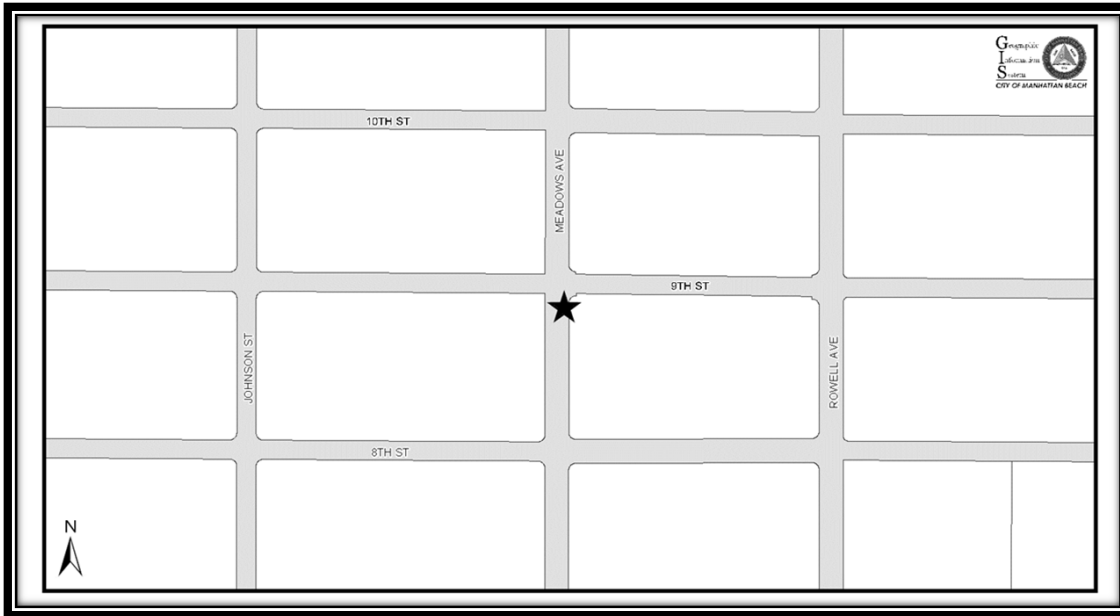
Justification: The Meadows Lift Station is located on Meadows Avenue immediately south of 9th Street. The current station could not pump at the needed rate if one of the two pumps fail or is taken out of service for maintenance. Additionally, there is insufficient storage at the station. This project 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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

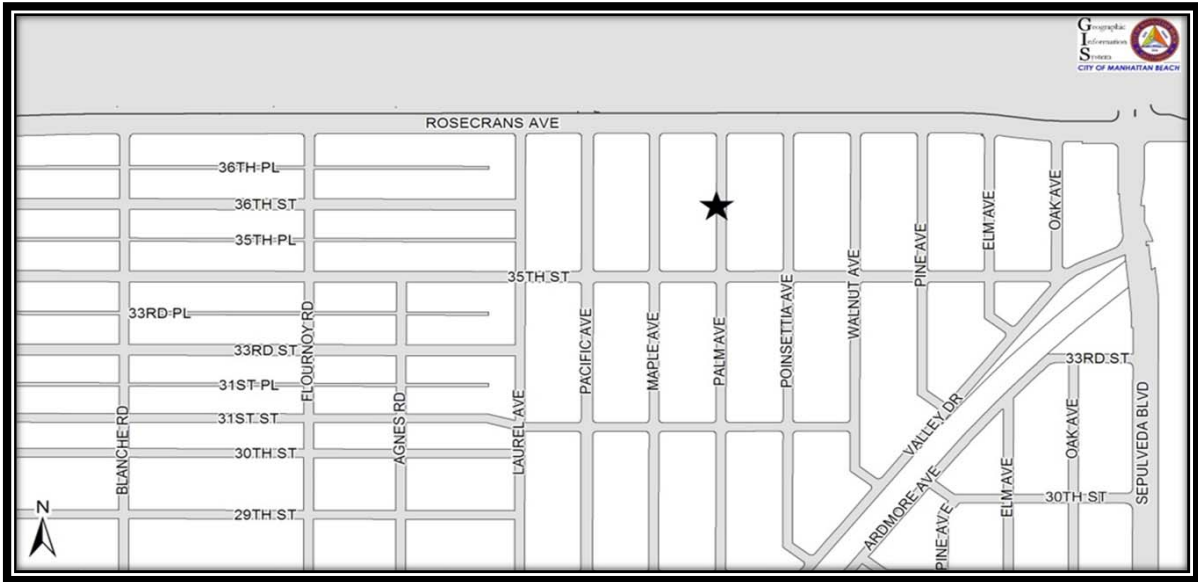
Project Title: Palm Lift Station Upgrade, Emergency Storage, and Force Main Replacement

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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

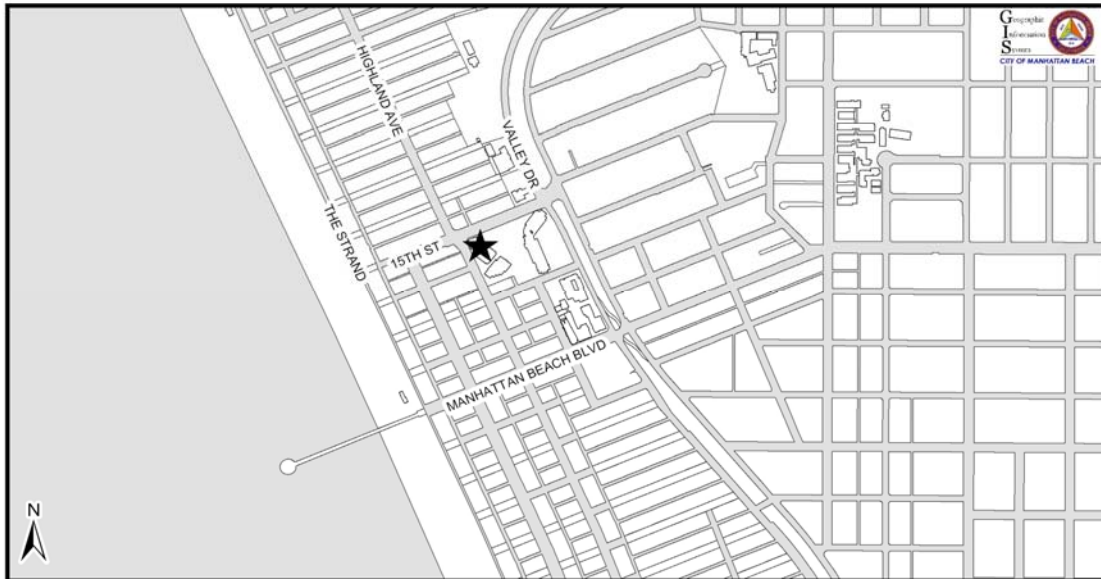
Project Title: City Hall Lift Station Upgrade, Emergency Storage, and Force Main Replacement

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024** **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: Refuse 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 Improvements: Design

Description: Design 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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Refuse Fund	\$ 150,000	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000
	TOTAL	\$ 150,000	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

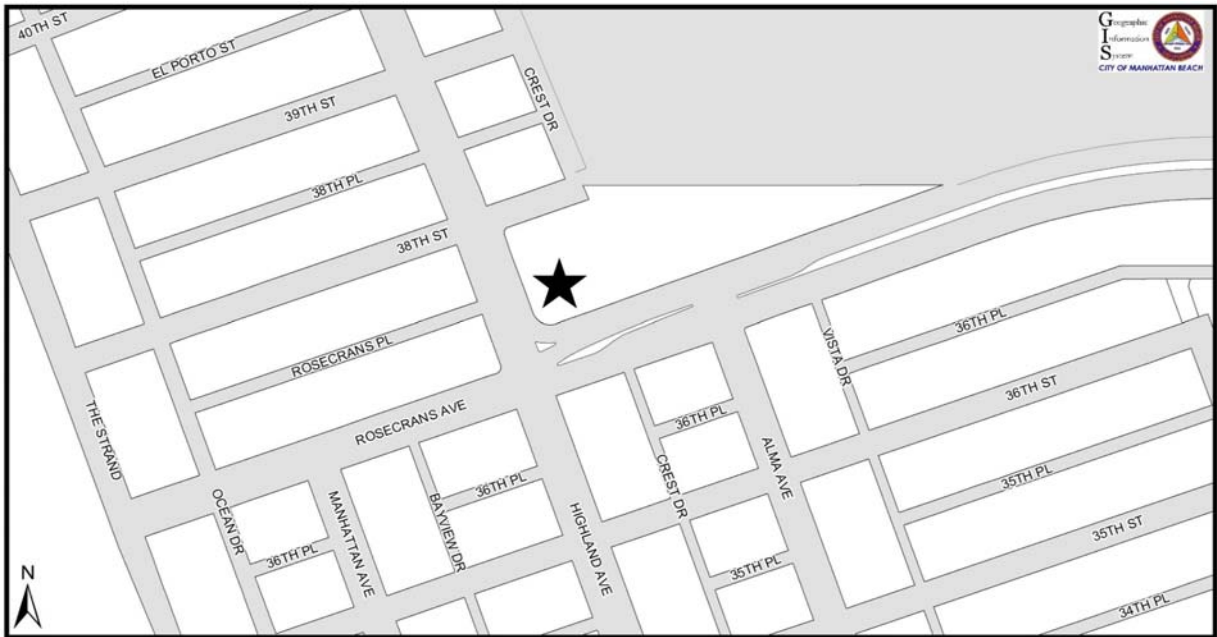
Project Title: Parking Structure Structural Rehab: Lot 4

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Parking Fund	\$ 480,250	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 730,250
	TOTAL	\$ 480,250	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ 730,250

Location Map:



City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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

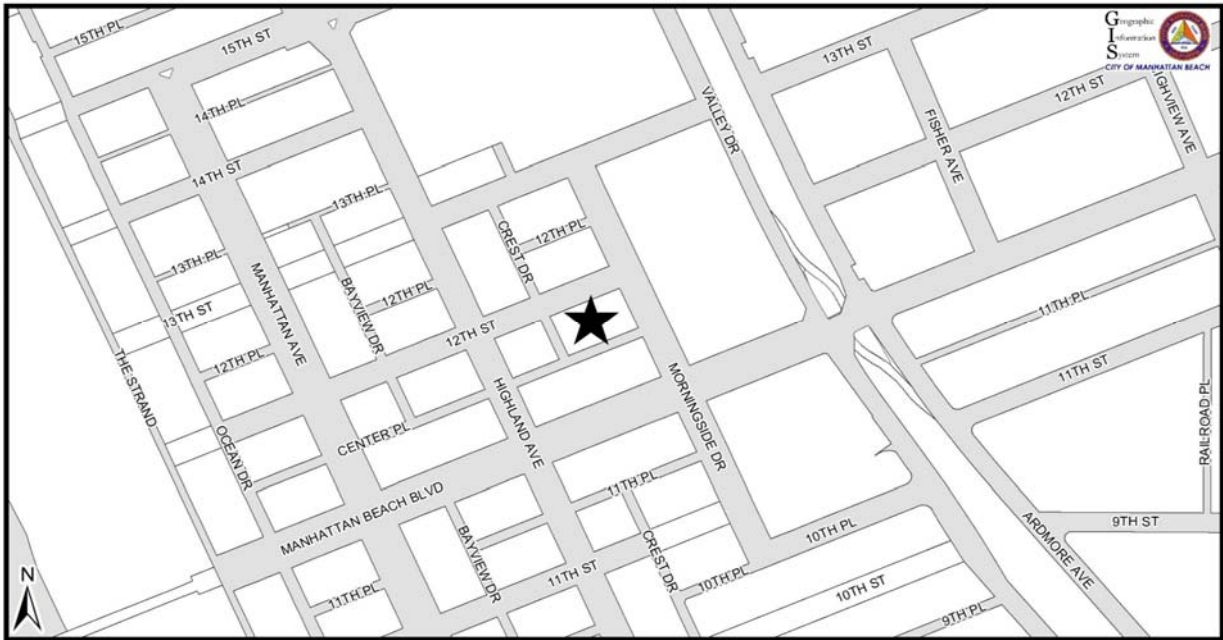
Project Title: Parking Structure Structural Analysis/Design: Lot 3

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	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 FY2020-2024
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: I-3, I-4, I-11

Project Title: Parking Meter Upgrades

Description: Replacement and upgrade of the current parking meters citywide.

Justification: The current meters have reached their useful life and require replacement. The new meters will sync with a mobile app, allowing the community to view available meters and their locations.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Parking Fund		\$ 1,400,000	\$ -	\$ -			\$ 1,400,000
	TOTAL	\$ -	\$ 1,400,000	\$ -	\$ -	\$ -	\$ -	\$ 1,400,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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: NMB-BID Fund

Carryover Project #: N/A

Original Funding Year: N/A

General Plan Element Goals: LU-9

Project Title: Tree and Grate Installations (North Manhattan Beach - Business Improvement District Fund)

Description: Install new trees and grates in North Manhattan Beach in the Business Improvement District.

Justification: The North Manhattan Beach - Business Improvement District is using some of its funds for this improvement project. Tree grates would essentially widen the walking pathway.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	NMB-BID Fund		\$ 200,000					\$ 200,000
	TOTAL	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:

No map; locations to be determined

**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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 #: 17801E

Original Funding Year: 2016-17

General Plan Element Goals: CR-1

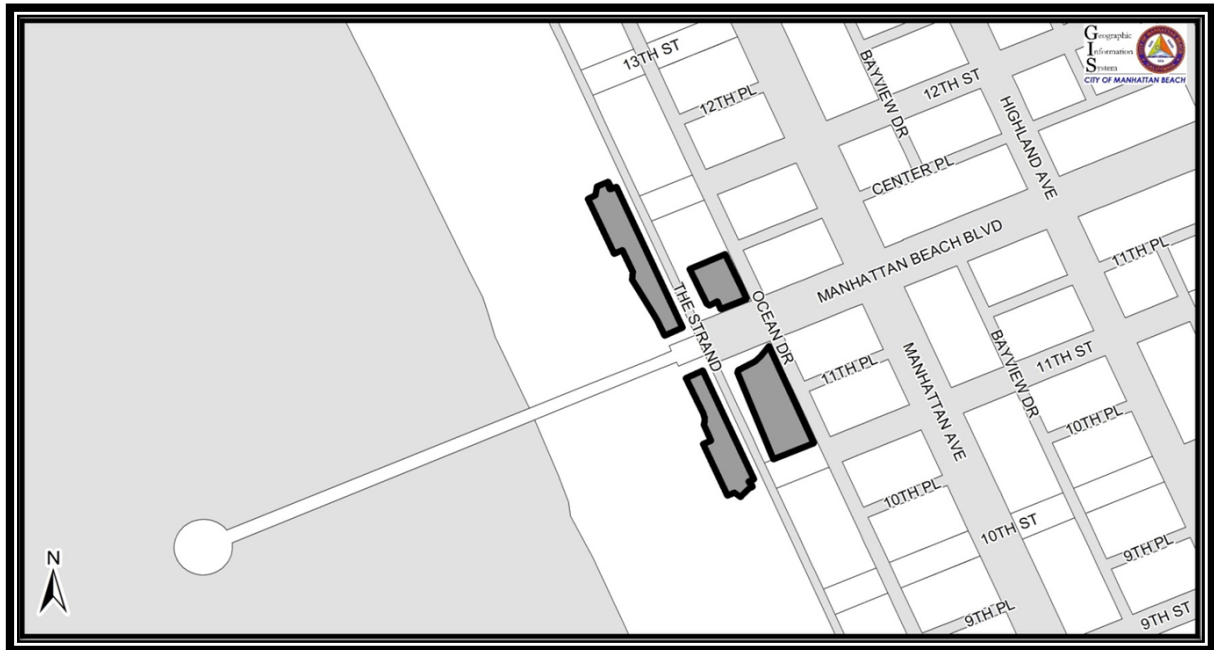
Project Title: Pier Lot Safety Lighting

Description: Design and construct parking lot lighting in the Upper and Lower Pier lots.

Justification: There are no lighting fixtures in the upper and lower pier parking lots. the only illumination comes from adjacent street lights. The low lighting levels make it difficult to read the parking meters and see pedestrians when entering/exiting parking spaces. Higher lighting levels improve personal safety, and lower crime rates. A parking lot user informed the City about the low lighting levels when the person had difficulty reading the parking meter at night.

Project Cost Information:	Funding Source(s):	Remaining Allocation as of 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	Parking Fund	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000
	TOTAL	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,000

Location Map:



**City of Manhattan Beach
Capital Improvement Plan FY2020-2024
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: Design

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 02-28-19	FY2019-20	FY2020-21	FY2021-22	FY2022-23	FY2023-24	TOTAL
	State Pier Fund	\$ 200,000	\$ -	\$ -	\$ -	\$ -		\$ 200,000
	TOTAL	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Location Map:

