

**ATTACHMENT B**  
**FY 2017-2019 PROPOSED CAPITAL IMPROVEMENT PROGRAM**  
**INFRASTRUCTURE BOND (MEASURE KK) PROJECT COST SUMMARY AND ANALYSIS**

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## PROJECT COST SUMMARY

DEPARTMENT	CATEGORY	PROJECT TITLE	PROJECT COST	DEPARTMENT SUBTOTAL
<u>FIRE</u>	<u>BUILDINGS AND FACILITIES</u>	Feasibility Studies, Right of Way Acquisition Options, and Preliminary Design for New Fire Stations 4 and 29	\$1,000,000	\$6,237,500
		Apron and Hardscape Replacement for Six Stations and Training Center	\$1,000,000	
		Roof Assessment and Replacement	\$1,087,500	
		Telescopic Apparatus Door Replacement	\$150,000	
		Fire Stations Citywide Renovations - Top Four Priority Stations	\$3,000,000	
<u>POLICE</u>	<u>BUILDINGS AND FACILITIES</u>	Phase II Feasibility Study, Right of Way Acquisition Options for Police Administration Building (PAB)	\$200,000	\$200,000
<u>LIBRARY</u>	<u>BUILDINGS AND FACILITIES</u>	2-3 Branch Renovations - West Oakland, Asian, Brookfield Branches proposed (includes electrical and data infrastructure upgrades to meet current requirements and code, safety and accessibility enhancements)	\$2,025,000	\$4,375,000
		Main Library Improvements	\$2,350,000	
<u>PARKS &amp; RECREATION</u>	<u>BUILDINGS AND FACILITIES</u>	Dimond Park – Lions Pool Improvement	\$1,015,000	\$9,265,000
		Head Start at Brookfield Recreation Center - Room Upgrade	\$375,000	
		Head Start Fac. - Arroyo Viejo Rec. Ctr. Renovation/remodel	\$375,000	
		Head Start Playgrounds Replacement at Arroyo Viejo, Brookfield, Manzanita, and San Antonio Rec. Ctr.	\$480,000	
		Head Start Renovation at Manzanita Rec. Ctr. - Flooring & new restroom	\$600,000	
		Rainbow Rec Ctr & Pk Expansion/Addition	\$5,000,000	
		Tassafaronga Gymnasium Upgrade	\$420,000	
	<u>PARKS &amp; OPEN SPACE</u>	Ballfield Wiring Hazard Mitigation - multiple locations (Lowell, Tassafaronga, Golden Gate, and Curt Flood)	\$1,000,000	
<b>Subtotal Facilities</b>				<b>\$20,077,500</b>

## PROJECT COST SUMMARY

DEPARTMENT	CATEGORY	PROJECT TITLE	PROJECT COST	DEPARTMENT SUBTOTAL
TRANSPORTATION	GREAT STREETS	Paving Program	\$25,000,000	\$35,600,000
		ADA 30-year Curb Ramp Transition Plan	\$3,600,000	
		Citywide Sidewalk Construction	\$2,000,000	
		Complete Streets Projects (Infrastructure bond fund as local match to existing grants), including:	\$5,000,000	
		(ATP - Active Transportation Program)		
		(HSIP - Highway Safety Improvement Program)		
		(OBAG - One Bay Area Grant)		
		(Strategic Growth Council)		
		ATP1 International Blvd BRT-supportive Ped		
		ATP2 Telegraph Complete Streets		
		ATP3 Fruitvale Alive Gap Closure		
		ATP3 14th Street Safe Routes in the City		
		ATP2 19th Street BART to Lake Merritt Greenway		
		HSIP7 Telegraph Avenue Safety Improvements		
		HSIP7 Market Street/ San Pablo Safety Improvements		
		HSIP7 Downtown Intersection Safety Improvements		
		HSIP7 Shattuck Av & Claremont Safety Improvements		
		HSIP8 Bancroft Avenue Safety Improvements		
		HSIP8 Fruitvale Avenue Safety Improvements		
		HSIP8 35th Avenue Safety Improvements		
		HSIP8 Downtown Pedestrian Safety Improvements		
		HSIP8 Citywide Guardrails Program Improvements		
		OBAG1 7th Street West Oakland Phase 2		
		SGC 2 10th Street Pedestrian Improvements		
	SAFE STREETS	Bicycle Master Plan Implementation, including:	\$3,000,000	\$5,000,000
		Bike Street Paving, Bikeway Striping, Bikeway Signage		
		Safe Routes to Schools, including:	\$2,000,000	
		Chabot Elementary		
		United for Success Academy		
		Montclair & Thronhill Elementary		
		Community Unites Elementary/Futures Elementary		
		International Community School		
		Edna Brewer Middle School		
		Achieve/World Academy		
		New Highland Academy		
Subtotal Transportation			\$40,600,000	

## PROJECT COST SUMMARY

DEPARTMENT	CATEGORY	PROJECT TITLE	PROJECT COST	DEPARTMENT SUBTOTAL
<u>HUMAN SERVICES</u>	<u>BUILDINGS AND FACILITIES</u>	Henry Robinson Multi-Service Center - Air Conditioning Replacement	\$257,500	\$257,500
<u>ANIMAL SERVICES</u>		Animal Shelter - Replace HVAC and Energy Management Sys.	\$1,650,000	\$1,650,000
WATER, ENERGY & SEISMIC		<b>Subtotal Water Energy &amp; Seismic</b>		<b>\$1,907,500</b>
<b>PROPOSED I-BOND FUND (FIRST ISSUE)</b>				<b>\$62,585,000</b>

## PROJECTS ANALYSIS

The projects below are recommended for I-Bond funding from the first bond sale. The I-Bond Ordinance requires that prior to issuance of bonds, the City Council shall identify for the specific projects included in such issuance:

1. How the projects address social and geographic equity, provide greater benefit to under-served populations and in geographic areas of greatest need;
2. How the projects address improvements to the City's existing core capital assets;
3. How the projects maintain or decrease the City's existing operations and maintenance costs; and
4. How the projects address improvements to energy consumption, resiliency and mobility.

The investment equity of the I-bond program was analyzed using the Oakland Equity Index (OEI), a metric developed by City of Oakland staff for use in measuring equitable distribution of infrastructure projects. Every census block in the city was assigned an OEI score based on the average of the percentages of the block population that are minorities[1], low-income[2], and youth under 10 respectively. Blocks are then assigned the designations of "very low", "low", "medium", "high" or "very high" disadvantage based on what quintile of census tracts their score places them in. Very High and High quintiles are concentrated in East Oakland and West Oakland while Low and Very Low quintiles are concentrated in hills neighborhoods, North Oakland and around Lake Merritt. (See Map "Equity by Population").

Projects were overlaid and evaluated on their geographic reach into areas with higher levels of disadvantage. The maps "Expenditure and Equity" for both Transportation and Building and Facilities identify projects proposed for I-bond funding by their equity status.

The information below provides the analysis required by the Bond Ordinance.

(1) Minorities are defined as persons who identify as any of the following groups defined by the Census Bureau: American Indian or Pacific Islander alone, Asian alone, Black or African American alone, Hispanic or Latino of any race, Native Hawaiian or Pacific Islander alone, Some Other Race or Two or More Races. (2) Low-income is defined as those making at or below 200% of the Federal Poverty Level

## FACILITIES

### FIRE

#### BUILDINGS AND FACILITIES

The replacements, renovations, and improvements proposed for OFD are necessary to remedy facility issues which impact OFD's emergency response and to provide firefighters with facilities that are safe and sanitary places for them to live and train while they are on duty serving the residents and visitors of the City of Oakland.

#### Social and Geographical Equity:

The proposed OFD's facility replacements, renovations and improvement are necessary for OFD to maintain its network of fire stations and facilities while maintaining a consistent level of service throughout the City of Oakland. Additionally, they are necessary to remedy facility issues which impact OFD's emergency response and to provide firefighters with facilities that are safe and sanitary places for them to live and train while they are on duty serving all the residents and visitors of the City of Oakland. The proposed station replacements No. 4 and No. 29 serve high and very high disadvantaged neighborhoods.

Preservation of Capital Assets:

OFD facilities are core capital assets that are tied to OFD's emergency response capabilities for all Oakland Citizens. The OFD station replacements, renovations and improvements will keep these core capital assets functional well into the future.

Maintenance:

By addressing years of deferred maintenance, all the proposed projects will decrease maintenance costs well into the future. The **Apron and Hardscape Replacement** at six stations and the Training Center will make these facilities safer and accessible for continued use. The **Roof Replacements** at four stations will keep stations functional and will prevent severe and long term water damage to the facilities. The Replacement of **Telescopic Apparatus Doors** allows speedy and safe egress of fire apparatus and improves energy consumption by sealing out heat, cold, and inclement weather. The **Feasibility Study, Right of Way Acquisition Options and Preliminary Design** for replacement of Fire Stations Nos. 4 and 29 are required as the current facilities cannot be brought up to current firefighting/emergency response standards as stipulated by the National Fire Protection Association (NFPA).

Energy Consumption, Resiliency and Mobility:

The proposed projects are an opportunity to improve OFDs aging building stock to not only improve firefighting/emergency response capabilities, but also to implement changes that would bring the buildings in line with current California's Building Energy Efficiency Standards (California Code of Regulations, Title 24), the 2016 Update to the Energy and Climate Action Plan, and would therefore have a potential to reduce energy consumption in OFD Fire Stations.

Fire stations serve as the "base" for OFDs emergency response, be it an incident involving a single person/structure, or an incident or disaster such as the Loma Prieta Earthquake and the Oakland Hills Firestorm. Delaying these repairs increases risks to both OFD personnel and the residents of Oakland, as well as impacts the City's and the greater Oakland community's ability to respond and recover from a large scale disaster.

The purpose of the City of Oakland 2016-2021 Local Hazard Mitigation Plan is "for the City to become more resilient and disaster-safe" additionally, one of the goals of the Plan is to "protect the health and safety of Oakland residents and others in the city by minimizing potential loss of life and injury caused by safety hazards." The projects identified with the Oakland Fire Department are consistent with the goal and purpose of the Local Hazard Mitigation Plan, and with several strategies highlighted therein, including: "Green Infrastructure Planning", "Assessment and retrofits of Critical Facilities and Infrastructure/Infrastructure Operators", "Implement Energy Assurance Plan", and "Continuity of Operations Planning".

The "resilience values" as stated in Resilient Oakland also align to OFDs projects. The Fire Station improvement projects would "improve the continuity of critical services". Moreover, the OFDs planning efforts for the OFD Training Center and Fire Stations 4 and 29 are in alignment with the resilience value of "fostering long-term and integrated planning".

## POLICE

### BUILDINGS AND FACILITIES

The existing Police Administration Building (PAB) is inadequate and does not meet the requirements of an essential facility. Phase I of the feasibility study which includes the determination of OPD program and space requirements will complete in June/July 2017. The proposed Phase II Feasibility Study will survey potential real estate acquisition options.

#### Social and Geographic Equity:

The proposed Phase II Feasibility Study for a new PAB will support the OPD's public safety efforts citywide.

#### Preservation of Capital Assets:

The PAB is a core capital assets that supports OPD's public safety capabilities for all of Oakland. The existing PAB does not meet the Essential Services Seismic Safety Act of 1986. A new PAB will meet the Essential Services requirement while providing an updated contemporary building that provides the required space for public safety service.

#### Maintenance:

A new PAB will provide an up to date building that with ample space for both the existing Eastmont Substation and the PAB while meeting the Essential Services Seismic Safety Act of 1986, and significantly reducing will maintenance needs currently present at both existing buildings.

#### Energy, Consumption, Resiliency and Mobility:

A new PAB will provide a contemporary facility that will meet LEED standards and therefore reduce energy consumption while meeting Essential Services Seismic Safety requirements and the space needs of OPD.

## LIBRARY

### BUILDINGS AND FACILITIES

The proposed **Library Branch Improvements - Asian, Brookfield, West Oakland, and Main** - are essential to keeping these core capital assets safe, accessible and able to meet the needs of Oakland's residents.

#### Social and Geographical Equity:

The Asian Branch Library is in a highly underserved low income, limited English speaking, and high density area of the downtown region serving a larglet Asian American community. It is over 21 years old and is the 2nd busiest branch in the system. The Brookfield Branch is in one of the most isolated neighborhoods in East Oakland serving a largley African American and growing Spanish speaking community that is low-income and primarily renters. The West Oakland Branch is in a very high underserved area of Oakland, large quantity of single-parent families, racially and economically diverse and transitioning, low-income and geographically isolated by I-880, I-980, and I-580 freeways. The Main Library is over 65 years old and serves all of the city's residents at a systemwide level. The immediate neighborhood is a mixed race/ethnicity population, close to Chinatown and has limited English proficiency. Households, again are mixed between lower-income renters and higher-income condominium owners. Few households in this area have vehicles.

Preservation of Capital Assets:

These four library branches are core community and capital assets that range in age from 21-65 years. All four branches require a variety of renovations including upgrades to lighting, safety, access, and to all electrical and data infrastructure to meet new technological needs, and code requirements. These renovations will ensure that these libraries remain open, provide up-to-date library services and increase accessibility and safety for residents and staff well into the future.

Maintenance:

By addressing years of deferred maintenance, the proposed library renovations will decrease maintenance costs well into the future. The renovations include upgrades to lighting, safety, access, and to all electrical and data infrastructure to meet new technological needs, and code requirements. The enhancements will decrease the City's operational and maintenance costs due to breakage and replacement of panels, circuit breakers, painting of graffiti, overall maintenance

Energy Consumption, Resiliency and Mobility:

The proposed library renovations will help to bring the facilities in line with current California's Building Energy Efficiency Standards (California Code of Regulations, Title 24), and will provide electrical and technological infrastructure upgrades and efficiencies, providing up-to-date library services, while increasing accessibility and safety for residents and staff well into the future.

PARKS & RECREATION

BUILDINGS AND FACILITIES

The proposed Park and Recreation facility renovations and improvements include three recreation facilities, **Rainbow Recreation Center, Tassafaronga Recreation Center Gym, Lions Pool at Diamond Park**, and four **Head Start facilities at Brookfield, Arroyo, Manzanita and San Antonio** recreation centers. The improvements are addressing deferred maintenance, growing programming needs, and federally mandated safety criteria that have rendered some of the facilities inoperable. The renovations will also provide the opportunity for additional services.

Social and Geographical Equity:

The **Rainbow** and **Tassafaronga Recreation Centers** are located in an areas of high ethnic diversity, low income, limited English speaking neighborhoods. the Center is aged, in need of upgrades, and has been previously identified for an expansion project that has gone through a robust community engagement process. This project requires additional funding for construction of the replacement of the facility that will allow for increased services to the community. In the case of **Lions Pool**, it is one of three pools in Oakland that is open year-around. It is therefore used by Oakland residents, adults and youth, City wide for swim instruction, rehabilitation for those who are disabled or injured, and general swimming recreation. **The Head Start Program facilities** serve Oakland's most vulnerable families. The sites proposed for improvements are located in east and central Oakland neighborhoods that have some of the highest child poverty rates in the city: **Brookfield** (94606 – Child Poverty Rate: 39.6%); **Manzanita** and **San Antonio** Park (94603 – Child Poverty Rate: 28.7%) and **Arroyo Viejo** (94605 – Child Poverty Rate: 30.5%). In addition, the zip code areas of 94603 and 94605 have among the highest incidences of crime, according to a recent community assessment, and are neighborhoods of vulnerability and greatest need.

Preservation of Capital Assets:

The proposed projects will provide renovations and improvements to core capital assets that provide a high volume of programming and events for underserved communities. The **Rainbow Recreation Center** project will replace a majority of the facility that will allow for increased services to the community and provide a new building that will serve the community well into the future. The improvements at the **Tassafaronga Gym, Lions Pool and four Head Start facilities** will address years of deferred maintenance that have either caused the closure or threatens the closure of these resources. The improvements will provide safe, useable facilities that will extend the useful life of each and in some cases provide capacity for additional programming.

Maintenance:

After years of deferred maintenance, the renovations and improvements of these OPR facilities will address many significant needs and prevent further damage to the facilities. The **Rainbow Recreation Center** project will improve and modernize the facility, which will decrease maintenance needs. Currently the condition of **Lions Pool** presents hazards to users that have resulted in litigation. The pool deck has many large breaks and is uneven. The site is slated for closure due to infrastructure instability. Fixing the roof and current water damage at the **Tassafaronga Gym** will prevent further water damage. The proposed **Head Start** facility renovations will address deteriorating facilities and years of deferred maintenance by replacing play structures, safety surfacing, flooring, windows, fencing and providing new toddler restrooms, which in turn will allow the facilities to stay open and decrease maintenance costs. Additionally, the improvements will in some cases lower operations cost by removing hazards and liability risks.

Energy Consumption, Resiliency and Mobility:

Modern infrastructure at Rainbow Recreation Center and park will incorporate energy efficiencies and stormwater treatment that will reduce resource consumption, clean stormwater, and will be compliant with current accessibility laws. At Lions Pool new pool technology as it relates to heating, filtration and water quality will lead to reduction of energy costs and resource consumption. The project will also bring the pool into ADA compliance. Improvements to the Tassafaronga Gym will allow the facility to be reopened, which will provide the this very underserved neighborhood a safe place for youth to gather, deliver opportunities for fitness and health as well social engagement. Improvements to the Head Start facilities will increase water and energy efficiencies in renovated/new restrooms, and replaced windows. In addition, investments in the Head Start facilities will support the Mayor's cradle-to-career community initiative. The Oakland Promise. Ensuring the proposed improvements are made will not only provide greater access to high-quality, safe, and nurturing learning and recreation environments, but will be a further investment in the city's core "human and social" assets – its diverse families and children.

PARKS & OPEN SPACE The four athletic fields proposed for lighting upgrades are **Curt Flood, Golden Gate, Lowell, and Tassafaronga**. The project will replace the wiring and light fixtures that have been vandalized and stolen.

Social and Geographical Equity:

The **Ballfield Wiring** projects are located at four ballfields (Curt Flood, Golden Gate, Lowell, and Tassafaronga) in highly underserved areas of west and east Oakland in neighborhoods of high ethnic diversity and primarily low income. These fields provide sorely needed recreational opportunities for youth and adults in these neighborhoods.

Preservation of Capital Assets:

Functional lighting will allow for night play decreasing negative use of fields such as encampments, drinking and vandalism, and thereby decreasing vandalism and sustaining the condition of the fields.

Maintenance:

The project will provide functional lighting at four ballfields with anti-theft technology reducing future maintenance and replacement costs.

Energy Consumption, Resiliency and Mobility:

The project will provide energy efficient light fixtures and allow access to the fields for night games, which will help to decrease crime and blight, while providing opportunity for night time recreation.

HUMAN SERVICES

BUILDINGS AND FACILITIES

The Henry Robinson Multi Service Center (HRMSC) located in the Touraine Hotel at 559 – 16th Street, serves over 300 literally homeless adults annually, many directly from encampments or places not fit for human habitation.

Social and Geographic Equity:

The **Henry Robinson Multi Service Center (HRMSC)** located in the Touraine Hotel at 559 – 16<sup>th</sup> Street, in a highly underserved area. A profile of the clients show: 60% are male; 34% are between the ages of 45 – 54; 83% are African-American; and 48% have mental illness, with over 40% have 2+ physical/mental conditions. In addition, the Henry Robinson Multi Service Center program serves clients that are at a higher risk of infectious diseases and other health conditions than the general public.

Preservation of Capital Assets:

The inside temperature at HRMSC is often extreme during summer months, making work nearly impossible for the homeless and service staff. The replacement of the degraded 20-ton HVAC system will provide a comfortable environment and complement the \$1.5 million in capital improvements completed in 2012.

Maintenance:

In FY 2015 and FY 2016 the maintenance and repair costs for the current HVAC system at HRMSC was close to \$35,000 on top of the service agreement costs. Having a system that does not require such costly repairs each year will create savings for the City.

Energy Consumption, Resiliency and Mobility:

A new HVAC system at HRMSC will address the swings in temperature, reduce yearly maintenance/repair costs and provide a more livable/workable environment for clients and service staff. The new system will be more energy efficient than the current HVAC system which is over 20 years old.

ANIMAL SERVICES

BUILDINGS AND FACILITIES

Social and Geographic Equity:

**Oakland Animal Services** provides services to animals and animal owners across Oakland. The shelter is Oakland's only "open admissions" shelter that accepts homeless, injured, orphaned, unwanted, lost, abandoned and mistreated animals.

Preservation of Capital Assets:

The proposed HVAC and Energy Management System replacement project will allow air quality and temperature control that will help to prevent the spread of communicable diseases between animals and staff, thereby making the facility useable into the future.

Maintenance:

The current HVAC and EMS are at the end of their useful life and do not work properly. They require constant maintenance and adjustments. Replacement of these systems will improve air quality in the 27,000 s.f. building and decrease maintenance costs.

Energy Consumption, Resiliency and Mobility:

The new HVAC and EMS will be more energy efficient and provide healthier environment for the animals and staff.

## TRANSPORTATION

Transportation projects funded by the Infrastructure Bond include both “Great Streets” and “Safe Streets” projects. Great Streets includes paving and complete streets projects, and Safe Streets projects include Bicycle Master Plan and Safe Routes to Schools projects. Most of the bond proceeds proposed to fund Transportation projects (\$25 million) directly address Pavement Resurfacing by expediting the completion of the existing five year paving plan. The remainder of the Transportation portion of the bond proceeds (\$15.6 million) fund CIP projects for curb ramps installation, sidewalk construction, and complete street, bicycle master plan, and safe routes to schools projects. More importantly, this latter category funds the local match for grants received for complete streets and street safety projects throughout the City. Finally, Pavement Program funds, Transportation Matching Grant funds and Streetscape funds will also be used for installation of Water Quality Control Board full trash capture systems as appropriate.

### Social and Geographic Equity:

The investment equity of the I-bond program was analyzed using the Oakland Equity Index (OEI), a metric developed by City of Oakland staff for use in measuring equitable distribution of infrastructure projects. Every census block in the city was assigned an OEI score based on the average of the percentages of the block population that are minorities<sup>[1]</sup>, low-income<sup>[2]</sup>, and youth under 10 respectively. Blocks are then assigned the designations of “very low”, “low” “medium” “high” or “very high” disadvantage based on what quintile of census tracts their score places them in. Very High and High quintiles are concentrated in East Oakland and West Oakland while Low and Very Low quintiles are concentrated in hills neighborhoods, North Oakland and around Lake Merritt. (See Map “Equity by Population”).

Projects were overlaid and evaluated on their geographic reach into areas with higher levels of disadvantage. The map “Expenditure and Equity” identifies transportation projects proposed for I-bond funding by their equity status. Projects are presented in two categories, Paving Projects and Transportation CIP Projects. Mapping analysis shows that the majority of projects are located in Very High and High quintiles, and the smallest percentage is located in the Very Low quintile. However, projects are distributed through all neighborhoods in Oakland.

Paving projects are typically scattered throughout Oakland based on paving need, while Transportation CIP projects, particularly those funded by grants, are focused in high and very high quintiles. Some of the largest grant funded projects, such as the International Blvd. BRT-Supportive Pedestrian Improvements, the Fruitvale Alive Gap Closure, and the Highway Safety Improvement Program (HSIP) projects reach deep into parts of East Oakland that score the most disadvantaged on the Oakland Equity Index. Others, such as 14th St. Safe Routes to the City, provide a gateway from West Oakland to job and resource centers downtown.

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Preservation of Capital Assets:

The City's streets are a core capital asset that allows for the safe, efficient movement of people and goods throughout Oakland. All of the I-bond funds for transportation will directly address preservation of, or an improvement to these core capital assets. The majority of bond proceeds proposed for transportation (\$25 million) will fund expedited completion of the 5 year Pavement Resurfacing Program, and also will fund Paving of Bicycle Plan Streets. Funds will also repair the City's existing Sidewalks and install ADA compliant Curb Ramps. Bond funds will also leverage grant funded projects that will improve existing streets; these projects will increase safety for bicyclists, pedestrians, and drivers by installation of crossing signals, signage, bike lanes, pedestrian crossing improvements, paving, etc. Finally, this program will implement Safe Routes to Schools improvements near up to eight elementary and middle schools in Oakland.

Maintenance:

The transportation projects proposed in the I-bond will decrease the City's operations and maintenance cost by repairing street infrastructure to a "new" condition. In the case of Pavement Resurfacing, Operations & Maintenance (O&M) and capital costs both increase exponentially as pavement quality decreases. By expediting completion of the citywide street resurfacing program, it will decrease the long term capital costs by resurfacing streets that are in fair/good condition before they fall into poor conditions that can drastically increase the cost for repair. Likewise the O&M costs on poor/failing streets are much higher than recently resurfaced ones, which require more pothole repair and other labor intensive "band aids. On a citywide basis the total O&M need will decrease. While it is very unlikely that the City's O&M needs will decrease below current O&M budgets (because they are currently relatively small), it is likely that a greater percentage of O&M budgets can be devoted to system preservation enhancements (such as crack sealing and skim coating) rather than short term solutions to catastrophic failures such as pothole patching.

Energy Consumption:

Investment in the City's streets infrastructure generally, and in the proposed I-bond projects specifically, has a neutral to positive impact on overall energy consumption for the following reasons:

- a. Investment in resurfacing city streets benefits not only autos, but also low energy consuming transit and bicycle transportation options.
- b. Most of the non-paving investments explicitly improve the safety and ease of the pedestrian, bicycle and transit environment, and increase the mode share of transportation alternatives to the single occupant vehicle.
- c. Investments are concentrated in areas of highest density and highest non-auto mode share.

Resiliency:

The maintenance and improvement of a multi-modal transportation network builds resiliency into the system by promoting transportation options. In addition, while maintenance (including street resurfacing) occurs throughout the City, no large new transportation projects are proposed in areas of high fire danger or sea-level rise danger.

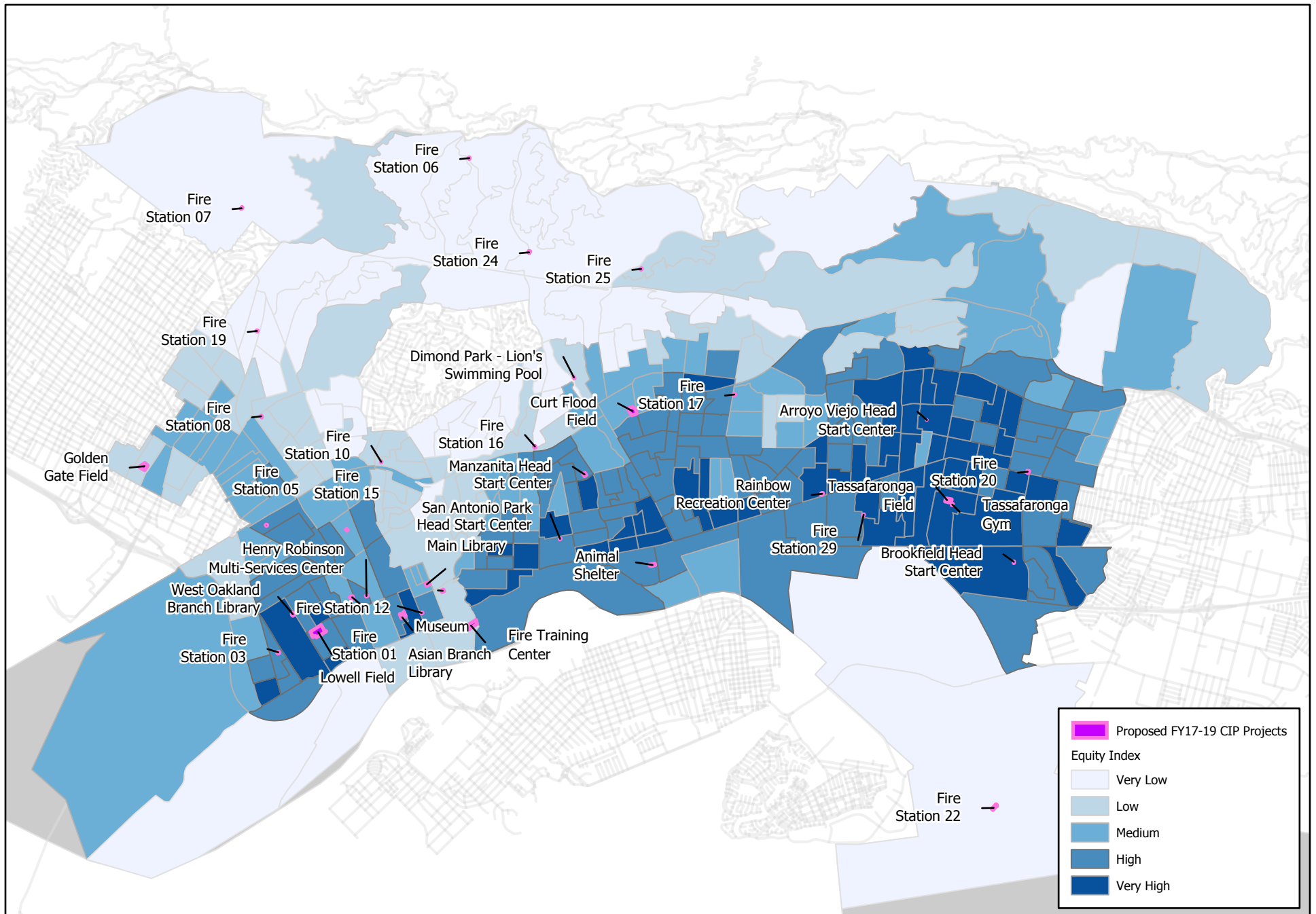
*Mobility:*

The projects proposed for I-bond funding likewise enhance mobility for all Oaklanders in all neighborhoods for the following reasons:

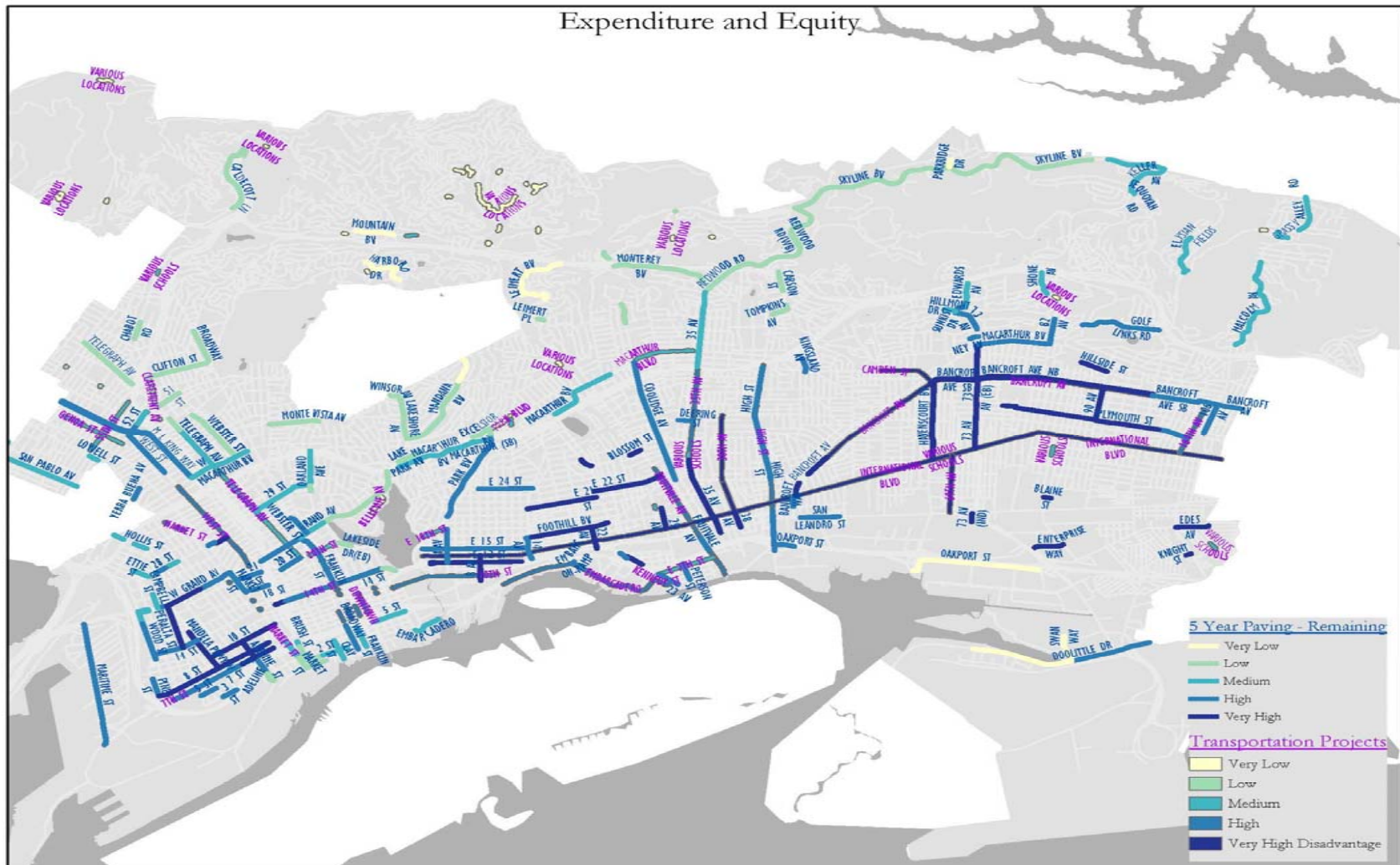
Pavement Resurfacing improvements are planned for all neighborhoods to enhance mobility for all modes, not only autos, but also the bicyclists and transit vehicles that use these roads, and the pedestrians who use the sidewalks and curb ramps that are also improved as a part of any paving project.

Other Transportation investments, particularly complete streets, bicycle master plan, and pedestrian investments, are concentrated in areas of high density and along corridors well served by transit. These projects explicitly seek to increase the safety, utility and appeal of walking, biking and using transit as a valid alternative to driving.

# Proposed FY17-19 CIP Projects - Facilities and Parks



# Map – Transportation



# Proposed Trash Capture for Transportation Projects

