

County of Los Angeles CHIEF EXECUTIVE OFFICE OPERATIONS CLUSTER

SACHI A. HAMAI Chief Executive Officer

DATE: January 29, 2020 **TIME:** 2:00 p.m. – 4:00 p.m.

LOCATION: Kenneth Hahn Hall of Administration, Room 830

AGENDA

Members of the Public may address the Operations Cluster on any agenda item by submitting a written request prior to the meeting.

Two (2) minutes are allowed for each item.

1. Call to order – Rick Velasquez/Gevork Simdjian

2. **INFORMATIONAL ITEM(S):**

(5 minutes)

A) Board Memo:

REPORT BACK ON COUNTY FLEET VEHICLE PURCHASING RESTRICTIONS
CEO CSO – Gary Gero, Chief Sustainability Officer
ISD – Michael Owh, Purchasing Agent

3. PRESENTATION/DISCUSSION ITEMS:

- A) JOB ORDER CONTRACTS CONSTRUCTION PROJECT MANAGEMENT ISD Michael Eugene, General Manager
- 4. Public Comment

(2 minutes each speaker)

5. Adjournment

FUTURE AGENDA TOPICS

CALENDAR LOOKAHEAD:

(5 minutes)

Board Letter:

INTRODUCTION OF AN ORDINANCE TO ESTABLISH A RENTAL REGISTRATION FEE RELATED TO THE MOBILEHOME RENT STABILIZATION ORDINANCE AND RENT STABILIZATION ORDINANCE

Board Letter:

AMENDMENTS TO THE PERMANENT MOBILEHOME RENT STABILIZATION ORDINANCE AND PERMANENT RENT STABILIZATION ORDINANCE

BOARD LETTER/MEMO – FACT SHEET OPERATIONS CLUSTER

OPS CLUSTER AGENDA REVIEW DATE	1/29/2020		
BOARD MEETING	3/3/2020		
SUPERVISORIAL DISTRICT AFFECTED	All		
DEPARTMENT	Chief Executive Office / Internal	Services Department	
SUBJECT	Countywide Sustainability Plan	– for information only	
PROGRAM	Fleet Vehicle Purchasing		
SOLE SOURCE CONTRACT	☐ Yes ☐ No		
CONTRACT	If Yes, please explain why: not	a contract	
DEADLINES/ TIME CONSTRAINTS	This is a 60-day report back in response to Board motion (Kuehl-Solis) of December 10, 2019 directing changes to vehicle purchasing policy. We have requested an extension for the report back in order to have the Operations Cluster and Audit Committee consider the changes before bringing it to Board for adoption.		
COST & FUNDING	Total cost: \$ 0	Funding source:	
	TERMS (if applicable):		
	Explanation:		
	There is no internal cost to revise the policy. County departments may face higher initial vehicle procurement costs as a result of the policy but are likely to have a lower overall cost of ownership over the life of the vehicle due to cost savings for fuel and maintenance.		
PURPOSE OF REQUEST	Approve vehicle purchase policy revisions consistent with the Board direction.		
BACKGROUND (include internal/external issues that may exist)	The Board motion directed CEO and ISD to develop revisions to the fleet purchasing policy – Board Policy 3.020 – to make two changes that are consistent with California state vehicle purchasing rules: 1) only allow the purchase of vehicles from companies that have recognized California's authority to set vehicle standards as provided by the federal Clean Air Act and 2) require the purchase of zero emission vehicles as the default option with an exception for public safety vehicles.		
DEPARTMENTAL AND OTHER CONTACTS	Name, Title, Phone # & Email: Gary Gero, Chief Sustainability Officer, 213-974-1160, ggero@ceo.lacounty.gov Michael Owh, Purchasing Agent, 323-267-2109, mowh@isd.lacounty.gov		



County of Los Angeles CHIEF EXECUTIVE OFFICE

Kenneth Hahn Hall of Administration 500 West Temple Street, Room 713, Los Angeles, California 90012 (213) 974-1101 http://ceo.lacounty.gov

> Board of Supervisors HILDA L. SOLIS First District

MARK RIDLEY-THOMAS Second District

SHEILA KUEHL Third District

JANICE HAHN Fourth District

KATHRYN BARGER Fifth District

January 15, 2020

To: Supervisor Kathryn Barger, Chair

Supervisor Hilda L. Solis

Supervisor Mark Ridley-Thomas

Supervisor Sheila Kuehl Supervisor Janice Hahn

From: Sachi A. Hamai

Chief Executive Officer

REPORT BACK ON COUNTY FLEET VEHICLE PURCHASING RESTRICTIONS (ITEM NO. 2, AGENDA OF DECEMBER 10, 2019)

As directed by the Board, the Chief Sustainability Office (CSO), in collaboration with the County Purchasing Agent and the Chief Executive Office (CEO), has prepared a new Board Policy 3.021 – County Fleet Vehicle Purchasing Restrictions to align the County's vehicle purchasing standards with the State of California with regard to support for California's authority to set vehicle emissions standards.

BACKGROUND

Given the severity of our air pollution, Los Angeles County has long been a leader in the fight against air pollution having established the first air pollution permitting program in the nation and creating the first air pollution control district in the 1940s. Similarly, the State of California has a long history of addressing this issue establishing the first automobile emissions standards in 1966 and creating the California Air Resources Board in 1967. When it enacted the 1970 federal Clean Air Act (CAA), the United States Congress recognized California's pioneering efforts and its extreme air pollution problem and granted to the state the authority to continue to set strict motor vehicle emissions standards under a waiver.

The waiver provisions of the CAA are contained in Section 209 and specify that the U.S. Environmental Protection Agency (EPA) may only deny a waiver request if it finds that California's extraordinary pollution circumstances no longer exist or if the state acted in an arbitrary and capricious manner in setting motor vehicle emissions standards. Since 1970, EPA has not denied a waiver request. However, last year the EPA began the process to revoke a previously approved waiver. This action is now the subject of litigation between California – which is supported by 22 states, the District of Columbia, and the City of Los Angeles – against the EPA. Despite this, four automakers – Ford, Honda, Volkswagen, and BMW – have voluntarily agreed to continue to meet California's standards regardless of the federal action.

Each Supervisor XXX YY, 2019 Page 2

The State of California has adopted a vehicle purchasing policy for certain classes of light and medium duty vehicles under which California will only buy vehicles from automakers that have agreed to meet California's standards. On December 10, 2019, your Board directed the County to develop a similar policy for Board consideration.

DISCUSSION

The CSO, in collaboration with the Internal Services Department (ISD) and operators of County fleets, has developed proposed Board Policy 3.021 – County Fleet Vehicle Restrictions (Attachment 1) that would align the County's vehicle purchasing policy with California's in accordance with Board direction.

This policy would limit County departments to purchasing vehicles from Ford, Honda, Volkswagen, BMW, and any other automaker that agrees to voluntarily meet California's motor vehicle emission standards as identified by the California Department of General Services. This policy would apply to all non-emergency sedans, sport utility vehicles, minivans, passenger and cargo vans, pickup trucks, and truck-cab-chassis. An exemption for Public Safety Special Performance (PSSP) vehicles is included in the proposed policy.

Additionally, an exemption process is established for departments that can demonstrate each of the following:

- 1) acquisition of a compliant vehicle would cause severe and extended impacts to the department's ability to execute its programmatic responsibilities;
- the requested non-compliant vehicle is necessary to protect the health, safety, or security of the public or is necessary to provide critical services and functions;
- 3) the requested non-compliant vehicle acquisition cannot be supported with an existing fleet asset; and
- 4) the requested non-compliant vehicle acquisition is urgently required to ensure the County's ability to execute its programmatic responsibilities and cannot be postponed to subsequent years.

Exemption requests under proposed Board Policy 3.021 are to be provided in writing to the County Purchasing Agent at ISD who shall approve or deny such requests after consultation with the Chief Sustainability Officer.

The CSO and Internal Services Department (ISD), in collaboration with operators of County fleets, has also updated and revised Board Policy 3.020 – Clean Fuel – Sustainable Fleet (Attachment 2) in a manner that would align the County's vehicle purchasing policy with the Countywide Sustainability Plan in accordance with Board direction.

This updated policy would make Zero Emission Vehicles the standard for all new nonemergency passenger sedans purchases by County departments. An exemption for Public Safety Special Performance (PSSP) vehicles is included in the proposed policy. Each Supervisor XXX YY, 2019 Page 3

RECOMMENDATION

It is recommended that the Board of Supervisors adopt revised Board Policy 3.020 – Clean Fuel – Sustainable Fleet and Board Policy 3.021 – County Fleet Vehicle Purchasing Restrictions and that the policies be made effective immediately upon adoption.

To support these policies, it is further recommended that the Board instruct:

- the CEO, in consultation with the Chief Sustainability Officer and ISD, to develop recommendations on increasing electric vehicle supply equipment on County leased facilities; and
- 2) the Director of ISD to develop and implement vehicle standardization requirements that will simplify ordering, increase buying power, consolidate parts inventory, and ultimately decrease costs and increase efficiency of the County's fleet(s).

SAH:FAD:GG

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Attachment

- 1. Policy 3.021 County Fleet Vehicle Purchasing Restrictions
- 2. Policy 3.020 Clean Fuel Sustainable Fleet

c: Executive Office, Board of Supervisors
County Counsel
Internal Services Department
Department of Public Works
Sheriff's Department
Fire Department
Los Angeles County Development Authority

Policy: 3.020 - Clean Fuel – Sustainable Fleet Effective Date: **PURPOSE** Establishes a clean air – sustainable fleet policy to improve air quality in the South Coast Basin through the expanded use of clean fuels for County vehicles in conjunction with other County-sponsored environmental programs. This policy establishes standards for new vehicle purchases and vehicle replacement cycles that will ensure the County's vehicles are replaced in a fiscally responsible and consistent manner that reduces energy/fuels consumption, criteria pollutants generation, and greenhouse gas (GHG) emissions. REFERENCE September 20, 1994 Board Order, Synopsis 9 November 30, 1994 Chief Administrative Office and Internal Services Department memo, "Los Angeles County Clean Fuels Policy" January 10, 1995 Board Order, Synopsis 8 November 15, 2005 Board Order No. 2 February 3, 2009 Board Order No. 23 July 1, 2011 Chief Executive Office Policy/Procedure/Guidelines-County Vehicle Policy California Air Resources Board (CARB) South Coast Air Quality Management Districts (AQMD) California's Global Warming Solutions Act (AB 32) California's Sustainable Communities Strategy (SB 375) Vehicle Retirement and Replacement (SB 1275) June 30, 2015 Board Order No. 22 December 10, 2019 Motion (Kuehl-Hahn) **POLICY**

It is the policy of the County of Los Angeles to transition its motor vehicle fleet to viable clean fuels, including hybrids and alternative fuels vehicles, as approved by the California Air Resources Board (CARB) and South Coast Air Quality Management Districts (AQMD).

The following County standards are provided for new vehicle purchases:

- 1. The standard for all new non-emergency passenger sedans for conducting routine County business shall be Zero Emission Vehicles. Any exceptions to this provision shall be made for cause and approved by the Chief Executive Office (CEO) in consultation with ISD for technical clarification.
- 2. Public Safety Special Performance (PSSP) Exemption County departments that can sufficiently demonstrate the need for vehicles with special performance requirements necessary for the protection of public safety and welfare shall not be subject to this policy. When invoking the PSSP exemption, County departments must submit sufficient justification with the agency's exemption request that demonstrates:
 - a. the requested acquisition(s) is necessary to protect the health, safety, or security of the public or is necessary to provide critical services and functions;
 - b. the vehicle is an authorized emergency vehicle pursuant to California Vehicle Code §165;
 - c. the vehicle, pursuant to California Vehicle Code §21055, may be:
 - i. driven in response to an emergency call or while engaged in rescue operations, or
 - ii. driven in immediate pursuit of an actual or suspected violator of the law, or
 - iii. driven in response to, but not returning from, a fire alarm, or
 - iv. operated from one place to another as rendered desirable or necessary by reason of an emergency call and operated to the scene of the emergency, or
 - v. operated from one fire station to another or to some other location by reason of the emergency call.
 - d. Where emergency response is not the primary purpose of a vehicle, a County department must be able to demonstrate that the specific vehicle may be used as part of an established mutual aid agreement that would necessitate an emergency response as outlined above.
- 3. The standard for new non-emergency trucks and medium to heavy-duty vehicles (Gross Vehicle Weight over 14,000 pounds) with emphasis on buses, trucks, street sweepers, and waste collection vehicles will be Compressed Natural Gas (CNG), or other alternative fuels other than diesel unless exempted as allowed by South Coast Air Quality Management District (AQMD) Rules 1191, 1193 and 1196.
- 4. Departments shall make at least 10% of all non-emergency light duty trucks or vans (14,000 pounds Gross Vehicle Weight or less) purchased as original equipment manufactured alternative fuel, such as CNG, Propane (LPG), Transitional Zero Emission Vehicles (T-ZEVs, Plug-In hybrids) or ZEV (Plug-In models). Any exceptions to this provision shall be made for cause and approved by the CEO in consultation with ISD for technical clarification.
- 5. Departments shall provide basis for seeking an exemption from the acquisition of vehicles not meeting the County standards to the CEO, in consultation with the Chief Sustainability Office, for review and approval. The written approval must be submitted along with the vehicle purchase requisition to the Internal Services Department's (ISD) Purchasing Division.
- 6. All exemptions will be reported by ISD, or the appropriate reporting department, in their Annual Clean Fuels Sustainable Fleet report. (See No. 5 below)
- 7. Departments that manage fleet operations shall report to the Board by March 1st each year on the composition of their fleet and the number of vehicles powered by clean fuels, including hybrids and other alternative fueled vehicles.

The following are the guidelines to achieve a systematic approach to vehicle replacement:

 All departments will utilize the following vehicle fleet replacement cycle standards for light-duty vehicles:

Vehicle Class	Years	Mileage

¹ As defined by the California Air Resources Board.

Emergency Vehicle*	8	110,000
Sedan	8	110,000
SUV	8	110,000
Van	8	110,000
Truck – Light-Duty	8	110,000

- * Emergency Vehicle includes light duty emergency-related vehicles as defined by the California Vehicle Code Sections 165, 30, 25269, 21055, and 27002. Light duty trucks are defined as those of 14,000 pounds gross vehicle weight or less. All vehicle replacement standards are applicable on 'whichever comes first' basis.
- 2. Vehicles become candidates for replacement when they reach either the age or mileage replacement criteria, whichever comes first. When vehicles are identified as candidates for replacement, the vehicles are not mandated to be replaced. Rather, vehicle replacement candidates will be subject to further analysis, including current utilization level; front-line or backup assignment status; repair history and pending repair/refurbishment costs; perceived reliability, suitability, and safety; and ease of replacement. Departments will report the results of this review to the CEO as part of their annual vehicle budget requests.
- 3. Departments will consult with the CEO to develop budgetary plans to fund replacement vehicles. Vehicle replacement will be coordinated centrally through the CEO as part of the annual budget process. ISD will provide fleet utilization and repair historical data and help develop the replacement strategy for departments that use ISD Fleet Services. Other departments will similarly work directly with the CEO. Each department should prepare an annual vehicle replacement plan.
- 4. Departments shall review vehicle utilization for opportunities to reduce fleet operating costs. Where feasible, departments shall reduce vehicle counts by pooling, renting County motor pool vehicles, employee mileage reimbursement, etc. Departments shall review vehicles that are driven 5,000 miles or less annually. Generally, such vehicles will be considered underutilized, and should be removed/turned in or redeployed unless fully justified based on business/operating requirements. Departments are advised to periodically rotate higher use vehicles with lower use units.
- 5. Increases to departmental vehicle counts will require CEO approval based on operating and/or program needs.
- 6. Unless otherwise justified based on operating/business needs, vehicles must be replaced "in kind" (e.g., sedan for a sedan). Replacement vehicles must meet ISD vehicle standardization requirements, departmental business requirements, limit features/accessories to those that improve safety and/or reduce risk or liability issues, enhance employee productivity, and are clearly needed for operations.
- 7. In procurement calculations of the Total Cost of Ownership bid evaluation shall utilize vehicle maintenance costs and replacement mileage standards detailed above to determine the lowest responsible bid.
- 8. All retired/replaced vehicles must be turned in for disposal or salvage and may not be retained within any County operation unless approved by the CEO. For salvaged vehicles, auction proceeds will be deposited to Motor Vehicle Accumulated Capital Outlay (MVACO) or accounts identified by each department and returned as appropriate to each department.

RESPONSIBLE DEPARTMENT

Internal Services Department

Chief Executive Office

DATE ISSUED/SUNSET DATE

Issue Date: January 10, 1995	Sunset Review Date: January 10, 2004
Review Date: February 19, 2004	Sunset Review Date: January 10, 2007
Review Date: November 15, 2005	Sunset Review Date: January 10, 2009
Review Date: January 18, 2007	Sunset Review Date: January 10, 2010
Reissue Date: February 3, 2009	Sunset Review Date: January 10, 2010
Reissue Date: February 18, 2010	Sunset Review Date: February 18, 2014
Review Date: December 18, 2013	Sunset Review Date: February 18, 2016
Review Date: May 21, 2015	Sunset Review Date: March 31, 2019
Review Date: June 30, 2015	Sunset Review Date: March 31, 2019
Review Date: July 20, 2017	Sunset Review Date: March 31, 2021

3.021 – County Fleet Vehicle Purchasing Restrictions
Effective Date:
PURPOSE
Aligns the County's fleet vehicle purchasing with the State of California in support of California's authority under Section 209 of the federal Clean Air Act to set motor vehicle emissions standards.
REFERENCE
December 10, 2019 Motion (Kuehl-Hahn)
POLICY
It is the policy of the County of Los Angeles that County departments are required to purchase vehicles

It is the policy of the County of Los Angeles that County departments are required to purchase vehicles from Original Equipment Manufacturers (OEMs) that recognize California's authority to set vehicle emission standards under Section 209 of the Clean Air Act and that have aligned with the California Air Resources Board (CARB) in their commitment to reducing their fleets' emissions. A current list of CARB-aligned OEMs can be found on the California Department of General Services (DGS), Office of Fleet and Asset Management (OFAM) website.

Designated vehicle categories subject to this policy include sedans, sport utility vehicles, minivans, passenger and cargo vans, pickup trucks, box trucks, and truck-cab-chassis as shown on the DGS OFAM website.

Any exceptions to this policy, including Public Safety Special Performance (PSSP) exemptions, shall be requested by written application to the County Purchasing Agent in the Internal Services Department (ISD). The Purchasing Agent shall approve or deny requests in consultation with the Chief Sustainability Officer (CSO). The Purchasing Agent shall report annually to the Board on all exemptions granted.

For an exemption to be approved, County departments must provide justification that sufficiently demonstrates each of the following:

- 1) the acquisition of compliant vehicle would have a severe and extended impact to the agency's ability to execute its programmatic responsibilities;
- 2) the requested non-compliant vehicle is necessary to protect the health, safety, or security of the public or is necessary to provide critical services and functions;

- the requested non-compliant vehicle acquisition cannot be supported with an existing fleet asset;
 and
- 4) the requested non-compliant vehicle acquisition is urgently required to ensure the County's ability to execute its programmatic responsibilities and cannot be postponed to subsequent years.

Public Safety Special Performance (PSSP) Exemption

County departments that can sufficiently demonstrate the need for vehicles with special performance requirements necessary for the protection of public safety and welfare shall not be subject to this policy. When invoking the PSSP exemption, County departments must submit sufficient justification with the agency's exemption request that demonstrates:

- 1) the requested acquisition(s) is necessary to protect the health, safety, or security of the public or is necessary to provide critical services and functions;
- 2) the vehicle is an authorized emergency vehicle pursuant to California Vehicle Code §165;
- 3) the vehicle, pursuant to California Vehicle Code §21055, may be:
 - a. driven in response to an emergency call or while engaged in rescue operations, or
 - b. driven in immediate pursuit of an actual or suspected violator of the law, or
 - c. driven in response to, but not returning from, a fire alarm, or
 - d. operated from one place to another as rendered desirable or necessary by reason of an emergency call and operated to the scene of the emergency, or
 - e. operated from one fire station to another or to some other location by reason of the emergency call.
- 4) Where emergency response is not the primary purpose of a vehicle, a County department must be able to demonstrate that the specific vehicle may be used as part of an established mutual aid agreement that would necessitate an emergency response as outlined above.

	RESPONSIBLE DEPARTMENT
Internal Services Department	
Chief Executive Office	

DATE ISSUED/SUNSET DATE

Issue Date: February XX, 2020	Sunset Review Date: February XX, 2025

ISD Facilities Craft Program Craft Participation Analysis

Executive Summary

JANUARY 2020



Introduction & Intent

On September 28, 2010, the LA County Board of Supervisors authorized the development of the County Deferred Maintenance Program, more currently known as the Facility Reinvestment Program (FRP), to establish a rational basis for short- and long-term planning of reinvestment in County facilities. In response, ISD's Facilities Operations Services (ISD-FOS) has initiated a five-year project planning process that coincides with the CEO's five-year funding plan that identifies and plans current FRP work, including the volume of work that would be associated with the county craft Force Account limits. One result of this planning activity is the identification of increased county work-force opportunities that exceed the current County employee workload capacities in many craft areas over the next 10 years. This workload has a value of \$195M.

Based on the Board of Supervisor's request to investigate the potential to provide meaningful work opportunities for County craft labor combined with the projected increased workload to address existing, documented County facility deficiencies, ISD-FOS initiated a study to analyze the increased workload for Force Account craft labor suitable for performing this work internally, and quantifying the associated increased County staffing requirements.



Purpose

This report serves two purposes:

- To identify potential opportunities within the FRP for work to be performed by ISD in-house Crafts over a 10-year period. This potential group of work within the FRP is identified as the "ISD Facilities Craft Program."
- 2. To perform a "Craft Participation Analysis" which assesses Craft capacities reflecting the historical volume of work performed by ISD to be utilized as a guide in resource planning for future short-and long-term availability of Craft resources. This Craft Participation Analysis will identify additional Craft resources necessary to address LA County's Board of Supervisors' interest in optimizing the use of in-house Craft resources subject to the 'Force Account' limits set forth in the State Public Contract Code (PCC).

Criteria, Parameters & Methodology

The ISD Facilities Craft Program analysis was conducted based on the following criteria and parameters:

- Specific County systems maintenance and deficiency databases were selected to identify Force Account work suitable for existing County ISD Craft labor pools
- This data was reduced to exclude County departments with their own in-house maintenance labor including LASD, DHS, DOW, and LACFD, which identified a workload of \$195M suitable for county Force Account resources
- Analyses assume all potential deficiency work to be executed over a period of 10 years starting FY20/21





Criteria, Parameters & Methodology continued

- In addition to the raw data, interviews were conducted, and historical information was analyzed, including 2020 hourly staff rates for ISD, current staff count per Craft, and their potential availability for utilization in the ISD Facilities Craft Program
- RSMeans and the Gordian Group Cost book were utilized for analytical due diligence
- An additional analysis of total volume of potential deficiency work included the application of "Severity Categorization" for ISD's \$195M volume of work. The grouping of the deficiency work is defined in four categories: Critical, High, Medium and Low

Total Potential Increase of Staffing Based on Workload Demand

The potential additional Craft work opportunities identified in the results of this study conclude that additional County craft resources would be needed starting in year 1 and peaking at 74 Full Time Employees based upon current workload, as shown in Figure 1.

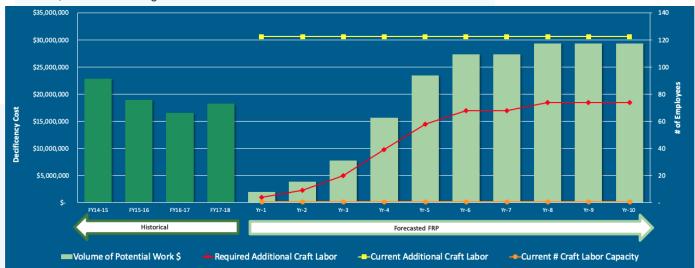


Figure 1: Additional Craft Labor required to meet the projected workload (in red)

Craft by Craft Summary

\$ 195,446,014	FY18-19	FY19-20	FY20-21	FY21-22	FY22-23	FY23-24	FY24-25	FY25-26	FY26-27	FY27-28
%	1%	2%	4%	8%	12%	14%	14%	15%	15%	15%
Volume of Potential Work \$	\$ 1,954,460	\$ 3,908,920	\$ 7,817,841	\$ 15,635,681	\$ 23,453,522	\$ 27,362,442	\$ 27,362,442	\$ 29,316,902	\$ 29,316,902	\$ 29,316,902
Required Additional Craft Labor	4	9	20	39	58	68	68	74	74	74
ELEVATOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
METAL WORKS	-	-	-	-	-	-	•	•		-
PAINTING / SIGNAGE	-	1	1	2	3	4	4	4	4	4
PLUMBING	-	-	1	1	2	3	3	3	3	3
MASONRY	-	1	1	3	4	5	5	5	5	5
HVAC	-	-	1	2	3	3	3	4	4	4
ROOFING	2	4	8	17	25	29	29	31	31	31
FLOORING	1	1	3	5	8	9	9	10	10	10
ELECTRICAL	-	1	2	4	5	6	6	7	7	7
CARPENTRY	1	1	3	5	8	9	9	10	10	10
Current Additional Craft Labor	123	123	123	123	123	123	123	123	123	123
Craft Labor Deficit to Meet Demand	(4.0)	(9.0)	(20.0)	(39.0)	(58.0)	(68.0)	(68.0)	(74.0)	(74.0)	(74.0)

Table 1: Summary by Craft by Year showing projected Craft Deficit (excluding Roofing Cohorts 1 and 2, containing FRP roofing projects for FY 17/18, and FY 18/19, respectively, not yet committed to execution). If uncommitted roofing work for Cohort 1 and Cohort 2 are included, this increases the projected cost from \$84M to \$93M and a subsequent increase on staff requirements from 31 FTEs to 37 FTEs







ISD Facilities Craft Program



Craft Participation Analysis

JANUARY 2020





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On September 28, 2010, the LA County Board of Supervisors authorized the development of the County Deferred Maintenance Program, more currently known as the Facility Reinvestment Program (FRP), to establish a rational basis for short-and long-term planning of reinvestment in County facilities. In response, the Internal Services Department (ISD), working with AECOM Technical Services, Inc., has implemented a comprehensive approach for the assessment of the condition of County-owned facilities. Subsequently, the County of LA deployed a web-based asset management database, known as Strategic Asset Management (SAM), to record and track current County facility conditions and forecast both short- and long-term maintenance requirements. The purpose of this database has been for the development of long-term plans to fund facility reinvestment based on prioritized needs, evaluation of current County practices, determination of best practices, and consideration of potential significant energy efficiencies that would reduce consumption and operating costs.





ISD's Facilities Operations Services has initiated a five-year project planning process that coincides with the CEO's five-year funding plan that identifies and plans current FRP work, including the volume of work that would be associated with the 'Force Account' limits. It is anticipated that meeting the needs of the Force Account work may necessitate the hiring of additional in-house Craft staff. In addition to the FRP work identified within the SAM database, all deficiency work less than the statutory Force Account limit of \$50,000, as well as all project work related to roofing, flooring, and painting above and beyond the \$50,000 limit, is anticipated to be performed by in-house Craft, with the exception of building assets related to the Los Angeles County Fire Department, Los Angeles County Sheriff Department (LASD), Department of Health Services (DHS), and Department of Public Works, whose FRP-related Force Account work will be managed by those departments. Additionally, circumstances such as timeline conflicts, capacity, project complexity, etc., may require ISD to engage outside contractors.



Purpose

This report serves two purposes:

- 1. To identify potential opportunities over a 10-year period within the FRP for work to be performed by ISD in-house Craft. This potential group of work within the FRP is identified as the "ISD Facilities Craft Program."
- 2. To perform a "Craft Participation Analysis" which assesses Craft capacities reflecting the historical volume of work performed by ISD to be utilized as a guide in resource planning for future short- and long-term availability of Craft resources. This Craft Participation Analysis will identify additional Craft resources necessary to address LA County's Board of Supervisors' interest in optimizing the use of in-house Craft resources subject to the 'Force Account' limits set forth in the State Public Contract Code (PCC).



Summary of Findings

45M GSF in County facilities and assets

LA County's total assets are approximately 45M gross square feet (GSF), with Supervisory District 1 (SD1) comprising the largest portion representing 23M GSF, more than double the assets in size for any of the other SDs, as shown in Figure 1.1. The assets within the remaining districts vary in size from 3M to 7M GSF.

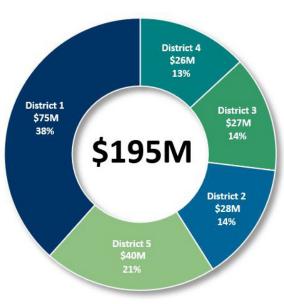


Figure 1.2: Potential Opportunities for ISD In-House Crafts, by District

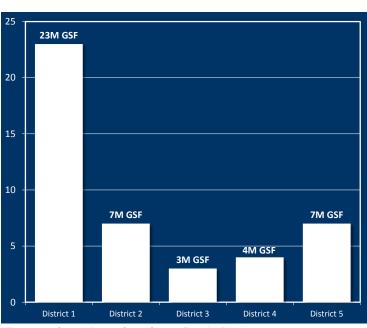


Figure 1.1: County Assets Gross Square Feet, by District

\$195M total potential opportunities for ISD in-house Crafts participation

Based on the available data in the County's SAM database, the current Craft resources capacity, and other background information collected and provided by ISD, a total of \$195M of deficiency work has been identified in the Deficiencies Report produced by SAM. This body of work represents potential opportunities for work to be performed by ISD in-house Craft, which will be referred to as the ISD Facilities Craft Program work. SAM identifies, in total, \$354M of deficiency work throughout the 5 SDs. However, for the purposes of this study. County departments who employ Craft resources independent of ISD are intentionally omitted, thereby reducing the sum of potential work for ISD's in-house Craft labor significantly. DHS and LASD were the largest County departments contributing to this \$354M volume of work throughout all 5 SDs. Figure 1.2 shows the remaining \$195M volume of work, with SD1 and SD5 together representing approximately 59% of the total potential volume of work, with the remaining 41% being shared between SD2, SD3, and SD4.



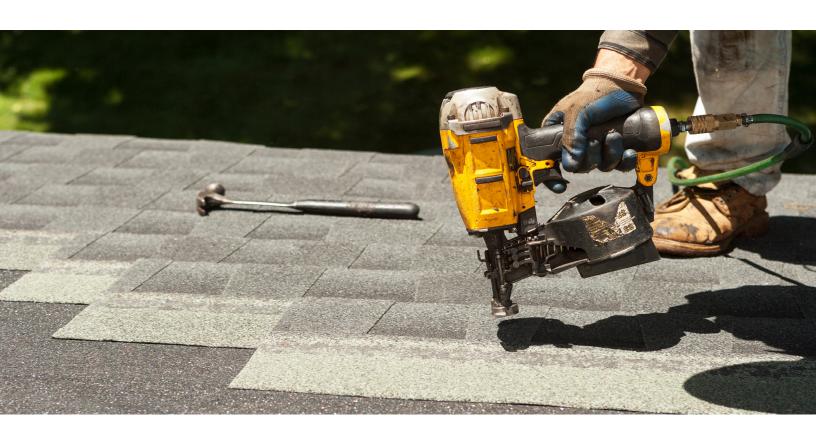
Probation and Parks & Recreation make up 40% of County Craft work

The County assets/facilities occupied by the Probation and Parks & Recreation Departments together represent 40% of the total potential opportunities to be performed by ISD's in-house Craft labor pools. The remaining departments with significant shares of the potential work include ISD with 17% and the Public Library system with 16%. The further remaining departments collectively making up 32% of the potential work are shown in Figure 1.3. The volume of work for other departments including Public Health, Beaches & Harbors, and Public Social Services make up 5% or less of the \$195M deficiency work.

Note, these figures exclude the Los Angeles County Fire Department, LASD, DHS, and Department of Public Works, whose FRP-related Force Account work will be managed by those departments.



Figure 1.3: Potential Opportunities for ISD In-House Craft, by Tenant Department





Roofing, Carpentry, Electrical, and Flooring constitute more than two thirds of the work opportunities for ISD

in-house Crafts

More than two-thirds of the Deficiencies volume of work that could potentially be performed by ISD in-house Craft fall into four categories: Roofing, the largest by volume at approximately \$84M; Carpentry, at approximately \$27M; Electrical at approximately \$22M; and Flooring at approximately \$22M; and Flooring at approximately \$20M. The HVAC, Masonry, Plumbing, Painting, Metal Works, Elevator, and Signage Craft combined represent the remaining 22% of the Deficiencies work, as shown in Figure 1.4.

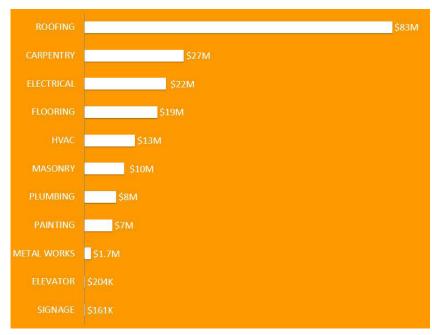


Figure 1.4: Potential Opportunities for ISD In-House Craft, by Craft





Limited available capacity to participate in new ISD Facilities Craft Program

Of the 10 trades identified for this Craft Participation analysis, a total of 123 full time, existing County ISD employees were identified. This FTE count is a portion of existing ISD in-house Craft that cover maintenance for all SDs, with the three largest Craft making up 71 employees out of the 123, including:

- HVAC − 22
- Electrical 33
- Plumbing 16

Relying on the information collected from ISD during various meetings and interviews, the analysis incorporates the current workload and availability of the existing Craft employees. It appears that out of the 123, there is an extremely limited number of hours deemed as available capacity to participate in the ISD Facilities Craft Program. However, according to the demand analysis conducted, the required gap in workforce resources needed for the subject ISD Facilities Craft Program work would be 74 additional employees.

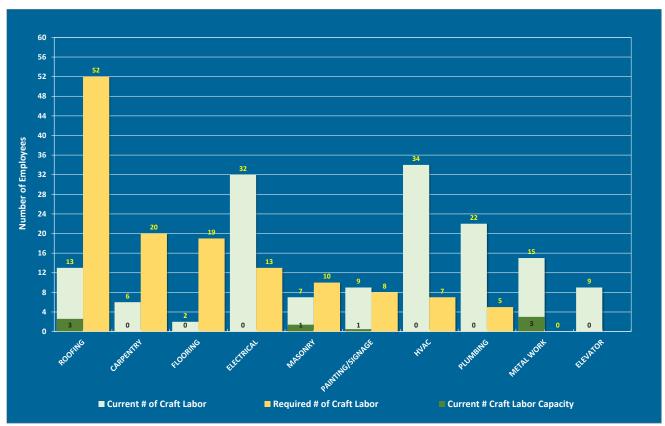


Figure 1.5: Current Craft FTE vs. Total Craft FTE Needed

Jacobs



Conclusion

In response to the purpose of this report to "identify potential opportunities over a 10-year period, inclusive of the FRP for work to be performed by ISD in-house Craft," the analysis shows that ISD will require an additional 74 employees of various craft labor categories to support the current in-house Craft staff of 123 employees. The potential Craft work opportunities identified in this report, spanning a 10-year proposed duration, would require a significant level of effort, peaking at 74 Full Time Employees (FTEs). The graph in Figure 1.6 reflects a ramping up of staff count with consideration to lead time for the on-boarding process of new FTEs. Based on a series of meetings with ISD and Craft Shop management, staff provided their understanding of the current workload and overall availability for in-house Craft. ISD Craft management noted that their labor is dispatched to service emergency situations for the majority of their work week which is prioritized above the identified maintenance work within the larger FRP. With the level of unplanned demand, the Craft supervisors can estimate a maximum of 0.6 FTEs that would be available for additional capacity. This results in a significant gap which could be dedicated to ISD Craft Participation work group scope.

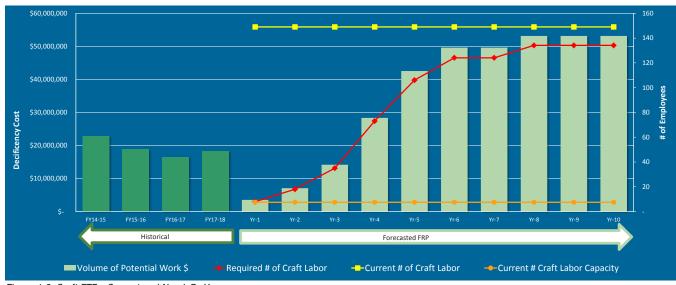


Figure 1.6: Craft FTE - Current and Need, By Year



This leads to four possible approaches to address the resulting gap:

- 1. Hire 74 new employees consisting of the various Crafts, as needed a feasible, but costly and time-consuming option, further explored in Section 3.
- 2. Conduct an in-depth evaluation of the in-house Crafts workload, to understand why over 94% of existing in-house Crafts are tied up, and therefore not available for any FRP work. The most plausible cause would be that most of the current existing in-house Crafts may be occupied by a disproportionate volume of daily maintenance service calls, preventing them from addressing any preventative maintenance work, and most definitely any of the potential FRP opportunities identified in this report. An ideal outcome of this evaluation would result in freeing up the required amount of resources that is 74 FTEs, from the existing Crafts workforce and dedicate them to the FRP, in which case there would be no need to hire new employees.
- 3. A hybrid approach, combining elements of both options above, to fill the 74 FTEs gap. This could be achieved by freeing up a number of the existing in-house Crafts and supplementing them by hiring a number of new employees. Depending on the findings of the above-mentioned evaluation, an ideal maintenance organization structure for LA County's consideration would be to have two Crafts groups. One group to continue focusing on the ongoing maintenance service calls and preventive maintenance, and a second group to engage in the potential FRP opportunities.
- 4. Further review of the 10 in-house Crafts mostly impacted by the FRP work to understand the current process and appropriation of work.



Jacobs



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The magnitude of the conclusions drawn in this study in terms of the number of additional staff required to execute the ISD Facilities Craft portion of the FRP are estimates based on the data provided as discussed in this report and a specific set of assumptions, including, but not limited to:

 Deficiencies work items included as part of the collected \$195M was selected if a deficiency item was identified to be equal to or less than \$50,000. All deficiency work of up to \$50,000 in cost as identified in the SAM database are considered for the Force Account Program (Reference PCC Section 20123) and part of the ISD Craft Participation Analysis



- Exceptions were applied to Crafts Roofing, Flooring and Painting, which are not subject to the \$50,000 budgetary cap. All identified deficiency work under the Craft labor categories of Roofing, Painting and Flooring, regardless of cost, are considered as part of this ISD Facilities Craft Program and Craft Participation Analysis
- Deficiency work under proprietors Los Angeles County Fire Department, Department of Public Works, DHS and LASD are excluded from this study. These departments are recognized to commission their own individual department Crafts and are therefore intentionally omitted from the ISD Craft Participation Analysis
- Analyses assume all potential deficiency work to be executed over a period of 10 years starting FY20/21
- In context of the SAM database, items that have no available costing information and are identified as "Not Costed" are excluded from this study

• Burdened Cost in the SAM database as used in this study does not include additional costs associated with: driving time to remote locations, road closures at project sites, hiring and placement of cranes

or other equipment at project sites, and additional staff needed for traffic control activities, for example. These costs could be assessed on a per scope of work basis and are not incorporated into the costs for this study

- Lead time required to onboard a new hire as a Craft resource for this study is assumed to be 6 months
- RSMeans Productivity Rates are calculated based on national industry standards
- All Crafts are assumed to work 1,744 work hours per year
- A 5% annual hourly rate escalation is applied
- Craft Hourly Rates for 2020 are applied to year 1 of the 10year projected duration
- Assumes 33% of the hourly rate is for costs beyond wage compensation (i.e., overhead, insurance, pension, etc.)

Craft	Hou	ırly Rate
Elevator	\$	173.00
Metal Works	\$	164.00
Painting/Signage	\$	127.00
Plumbing	\$	171.00
Masonry	\$	144.00
HVAC	\$	171.00
Roofing	\$	145.00
Flooring	\$	142.00
Electrical	\$	171.00
Carpentry	\$	144.00



- Historical ISD Service Request data, sourced from the Financial Accounting Management Information System (FAMIS), captures previous fiscal years, FY18-19, FY17-18, FY 16-17, FY15-16, and FY14-15
- Labor and material cost breakout for the following craft labor categories are below.
 Percentage distribution is based on historical data by Jacobs, referencing RSMeans and Gordian Construction cost for discretional comparisons (Gordian Group and RSMeans are industry leading providers of facility and localized construction cost data):
 - a. Roofing Craft labor and material breakout is 34% and 66%, respectively
 - b. Carpentry Craft labor and material cost breakout is 38% and 62%, respectively
 - c. Electrical Craft labor and material cost breakout is 38% and 62%, respectively
 - d. Flooring Craft labor and material cost breakout is 50% and 50%, respectively
 - e. HVAC Craft labor and material cost breakout is 32% and 68%, respectively
 - f. Masonry Craft labor and material cost breakout is 51% and 49%, respectively
 - g. Plumbing Craft labor and material cost breakout is 39% and 61%, respectively
 - h. Painting Craft labor and material cost breakout is 50% and 50%, respectively
 - i. Metal Works Craft labor and material cost breakout is 15% and 85%, respectively
 - j. Elevator Craft labor and material cost breakout is 24% and 76%, respectively





Assumptions

In order to meet the objective of executing the identified potential work for in-house Crafts within the larger FRP portfolio, this report estimates the necessary FTE count per Craft required to meet the additional demand. This report is a representation of data and information collected from various sources provided by ISD.

The main source of data utilized, with access provided by ISD, is the SAM database which houses massive amounts of information supporting the development of the ISD Facilities Craft Program. Various categories of work and groupings are available from various SAM reports, including module reports labeled All Systems, All Buildings, All Sites, All Deficiencies, and All Projects.

The Deficiencies Report was chosen for the most relevant raw data, classifications for severity of deficiency, and quantities to use as this report's baseline. Additionally, the SAM All Buildings report was used to extract the Proprietor, Classification Code, and GSF fields to build into the baseline data and incorporated into a processed source data file. The raw SAM data download provided a listing of over 4,400 Los Angeles County assets, including buildings parking lots and utilities. This study assumes the exclusion of the parking lot data and any other deficiencies work categorized within SAM as 'Excluded.' The logic in applying this filter is to provide a square footage data match to the SAM Homepage Dashboard report in October 2019. An additional source is a FAMIS data download which was used for comparison purposes of past years' volume of work. For the study, ISD provided an accumulation of service requests from the previous five fiscal years which are plotted in graphs within this report.

Further information was collected from ISD including 2020 hourly staff rates, current staff count per Craft, and their potential availability for utilization in the ISD Facilities Craft Program. Note, the quantification of current FTE count for each Craft excludes supervisor roles.

RSMeans and the Gordian Group Cost book were utilized for analytical due diligence and application of cross-checking industry productivity rates. It is noted that this report only uses the data downloaded from the SAM database as of September 2019, and therefore does not account for any future deficiencies or projected asset deterioration.







Opening Statement

Potential Deficiencies Volume for In-House Craft

Once the data from the SAM deficiencies report and the four-year Historical Data were retrieved from SAM and FAMIS respectively, we segregated the costs that could potentially pertain to the ISD in-house Craft resources. Next, we compared the details to the historical data, and then processed the resulting information in several ways for cost and severity categories to show how the identified potential deficiencies can be approached utilizing the in-house Craft resources.



In which District is there the most work

for ISD in-house Crafts?

The first result from the analysis is the total volume of maintenance and deficiency repair work in the ISD Facilities Craft Program that could be performed in-house, given the selection criteria outlined in Section 2, Basis of Study. The adjacent Figure 3.1 shows the breakdown of potential ISD Craft Force Account work associated with each SD:



- 2. SD 5 21% at \$40M
- 3. SD 2 14% at \$28M
- 4. SD 3 14% at \$27M
- 5. SD 4 13% at \$26M

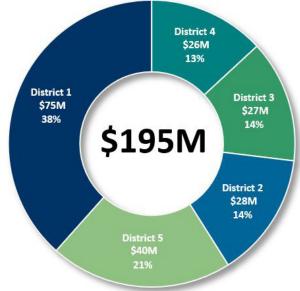


Figure 3.1: Potential Opportunities for ISD In-House Crafts, by District



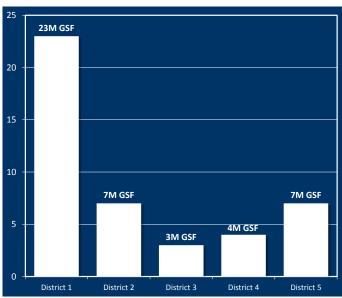


Figure 3.2: County Assets Gross Square Feet, by District

Figure 3.2 shows that SD1 comprises the largest GSF of County assets at 23M GSF, so it is expected that it would require a large portion of the in-house craft volume of work within the ISD Facilities Craft Program.



By taking a look at the data from a different angle, we were able to break down the \$195M volume of work by Craft. It is determined that out of the seventeen (17) different in-house Craft classifications, seven crafts could not be clearly associated with any of the subject work, either due to their ancillary nature as helper, general maintenance, machinist, and equipment operator, or because there were no tasks in the database that specifically determined to require these Craft, such as locksmith, heat and frost insulator, and wastewater. Thus, this study generates findings focusing on 10 Crafts: carpentry, electrical, flooring, roofing, HVAC, masonry, plumbing, painting/signage, metal works, and elevator.

Which ISD in-house Craft takes up the highest proportion of the work?

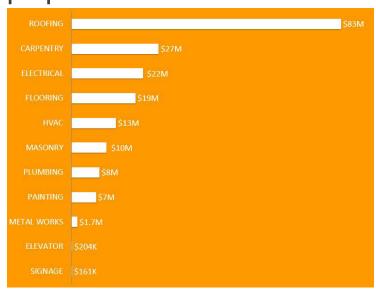


Figure 3.3: Potential Opportunities for ISD In-House Crafts, by Craft

The remaining 10 Craft classifications were considered to be able to cover the entirety of the \$195M worth of work, as shown in Figure 3.3, where it can be clearly seen that the Roofing Craft represents the largest volume of the ISD Facilities Craft Program.

Carpentry, Electrical, and Flooring crafts combined follows as a representation of the following substantial portion of the volume of work.

Subsequently, HVAC, Masonry, Plumbing, Painting/ Signage, Metal Works, and Elevator combined is relatively half of the Roofing volume..





The seven most needed in-house Craft across all five districts are roofing, carpentry, electrical, flooring, HVAC, masonry, and plumbing.

A step further was taken to process the figures, shown in Figure 3.4, to determine which Craft forms most of the work within each district. In general, it appears that the most common work across all five districts in crafts are, in order of volume, roofing, carpentry, electrical, flooring, HVAC, masonry, and plumbing, even though other crafts are needed as well.

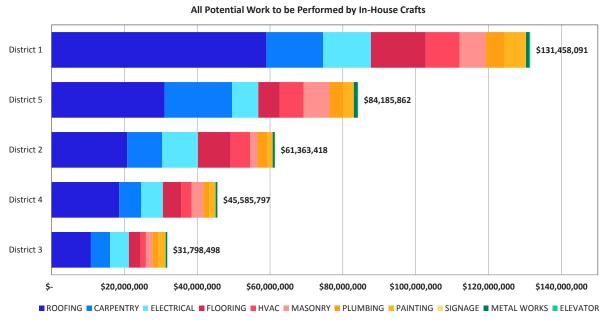


Figure 3.4: Potential Opportunities for ISD In-House Crafts, by District, by Craft



Figure 3.5: Potential Opportunities for ISD In-House Crafts, by Tenant Department

By taking a look at the data from a tenant department perspective, we can see in Figure 3.5 a breakdown of the tenant departments with the highest proportions of deficiencies work that could potentially be assigned to ISD in-house Craft.

Figure 3.7 provides the detailed breakdown of the 'All Other Departments' volume of work that constitutes \$63M or 32% of the potential \$195M ISD Facilities Craft Program scope of work.





Figure 3.6: County Assets Gross Square Footage (including DHS, LASD, DPW, and DHS), by Tenant Department

Together, ISD, Probation, and Parks & Recreation constitute more than half of the total GSF of occupied county facilities (excluding Fire, LASD, Public Works, and DHS), as shown in Figure 3.6. The County assets total to 44M GSF with the inclusion of tenant departments, LA County Fire Department, LASD and DHS. However, for the purposes of this study, those tenant departments are excluded in reference to the actual ISD Facilities Craft Program deficiency work.

Which tenant departments are in most need of in-house repair and maintenance by Craft?

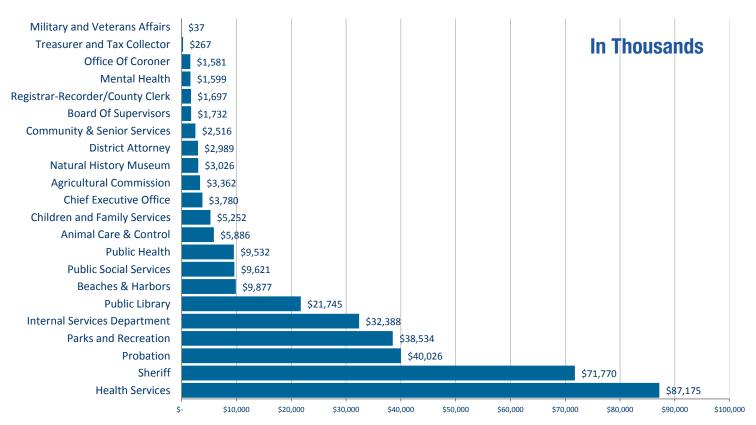


Figure 3.7: Potential Opportunities for ISD In-House Crafts, by Tenant Department



What is the makeup of work by severity classification?

An additional analysis of total volume of potential deficiency work included the application of "Severity Categorization" for ISD's \$195M volume of work. The grouping of the deficiency work is defined in four categories: Critical, High, Medium and Low. Figure 3.8 reflects that the portions of the \$195M deficiency work are relatively equal amongst the three severity categories. The work identified as 'Critical' severity was quantified as less than 0.5% of the \$195M and is therefore not plotted on the figures within this report.

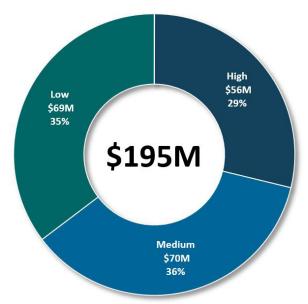


Figure 3.8: Potential ISD Craft Opportunities by Severity Classification, of the \$195M Total

Which District has the most urgent need based on severity?

SD1 contains both a significant amount of the County's GSF and bears the largest volume of the ISD Facilities Craft Program work. The deficiency works classified as 'High' severity parallels the same findings and are mostly located within SD1 boundaries. Consequently, illustrated in Figure 3.9, SD1 also carries similar characteristics and displays a proportionate amount of the 'Medium' and 'Low' severity classification of work. The scope identified as 'Critical' severity was quantified as less than 0.5% of the \$195M and is therefore not plotted on the figures within this report.

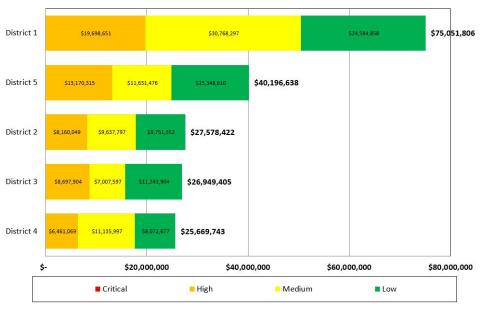


Figure 3.9: Potential Opportunities, by Severity Classification and District



For the purpose of the overall Craft analysis, Cohort 1 (FY 17/18 projects with a Priority Score of 6 or greater) and Cohort 2 (FY 18/19 projects with a Priority Score of 6 or greater) are excluded and assumed to be executed through the FRP. However, specifically for Roofing, all projects in Cohort 1 and 2 not yet committed to execution are herein considered for this analysis as a second option.

Additional 31 Roofing FTEs needed to meet demand

The data reflects that \$84M of the \$195M ISD Facilities Craft Program is attributed to the Roofing work. The analysis in Figure 3.10 shows that SD 1 and SD 5 represent 62% of the volume of potential work to be performed by the in-house Roofing Craft and the remaining 38% is spread between SD2, SD3, and SD4. The top tenant departments that carry the largest potential roofing deficiencies are ISD, Parks and Recreation and the Public Library, shown in Figure 3.11.

ISD currently effectively utilizes a staff of 10.5 Roofing Craft workers.

Based on the information derived from ISD Craft management meetings, the Craft workers are occupied at 100% capacity and are not available to be engaged in the ISD Facilities Craft Program effort. To respond to the additional Roofing volume of work, projected at \$84M, the roofing FTE Craft workforce may require a tripling of the staff counts, should ISD choose that option.

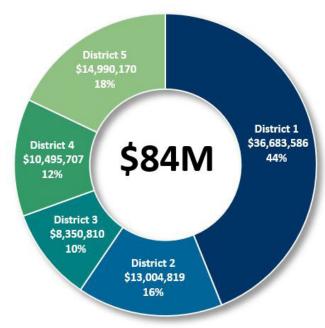


Figure 3.10: Potential Opportunities for Roofing by District



Potential \$84M of Roofing deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

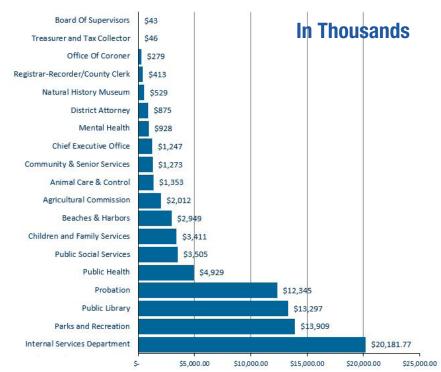


Figure 3.11: Potential Opportunities for Roofing, by Tenant Department

Meetings and staff interviews provided some insight to Roofing Craft work processes and efficiency factors contributing to the insufficient capacity to engage in the ISD Facilities Craft Program. Current Roofing Craft efficiency is affected by the working pattern and the wait time after utilizing open flame** within the Craft shop. Besides the staff's regular workload, responding to emergencies, preventive maintenance and Service Requests, the staff also provides Quality Assurance for all Job Order Contract (JOC) projects, thereby increasing the workload by 10%. For prudent safety practice, working in pairs is a common occurrence and is taken into consideration by the Craft supervisors when assessing the efficiency of the team.

To complete the total of \$84M of potential roofing work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 31 full time employees, shown in Figure 3.12.

Note: The ISD Roofing Craft is unique in that the unit has the authority to provide delivery and execution of work above and beyond the \$50,000 Force Account limit.

^{** &}quot;Open Flame" (sometimes called Torch Down) is a roofing process used during installation of modified bitumen roofing materials where a directional open flame is applied by the installer to melt or liquify the bitumen adhesive material, ensuring a long lasting moisture resistant seal to the roof area.





Figure 3.12: Roofing Craft FTE to meet ISD Facilities Craft Program Demand



Additional 37 Roofing FTEs needed to meet demand

With the addition of uncommitted works for Cohort 1 and Cohort 2, the data reflects an increase from \$84M to \$93M for roofing. The impact of the increase on the distribution among the districts carried minimal change, however staff requirements will increase from 31 FTEs to 37 FTEs.

ISD currently effectively utilizes a staff of 10.5 Roofing Craft workers.

Based on the information derived from ISD Craft management meetings, the Craft workers are occupied at 100% capacity and are not available to be engaged in the ISD Facilities Craft Program effort. To respond to the additional Roofing volume of work, projected at \$93M, the roofing FTE Craft workforce may require significantly increased the staff counts, should ISD choose that option.

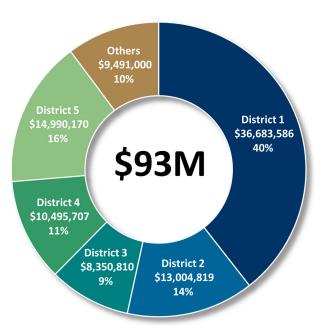


Figure 3.10.1: Potential Opportunities for Roofing by District



Potential \$84M of Roofing deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

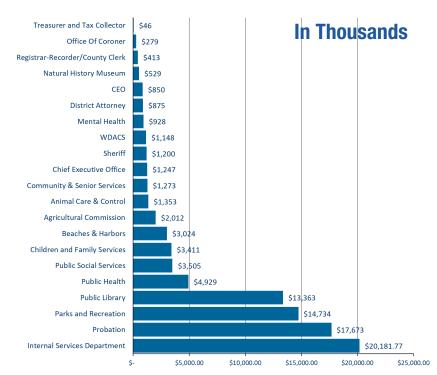


Figure 3.11.1: Potential Opportunities for Roofing, by Tenant Department (inclusive of Cohort 1 & Cohort 2)

To complete the total of \$93M of potential roofing work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 37 full time employees, shown in Figure 3.12.1.

Note: The ISD Roofing Craft is unique in that the unit has the authority to provide delivery and execution of work above and beyond the \$50,000 Force Account limit.

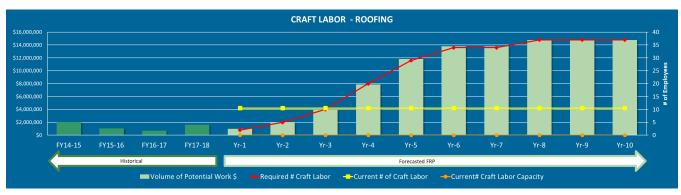
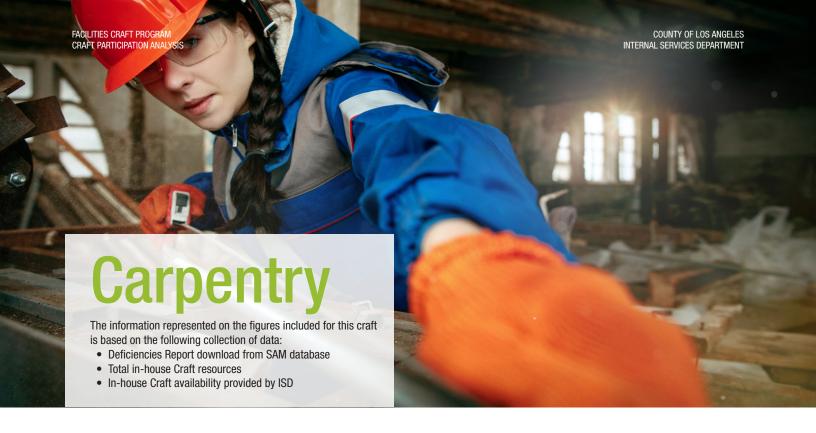


Figure 3.12:.1 Roofing Craft FTE to meet ISD Facilities Craft Program Demand (inclusive of Cohort 1 & Cohort 2)



Additional 10 Carpentry FTEs needed to meet demand

The data reflects that \$27M of the \$195M ISD Facilities Craft Program is attributed to the Carpentry work. The analysis in Figure 3.13 shows that SD1 and SD5 represent 55% of the volume of potential work to be performed by the in-house Electrical Craft and the remaining 45% is spread between SD2, SD3, and SD4. The top tenant departments that carry the \$15M of the potential carpentry deficiencies are Probation and Parks & Recreation, as shown in Figure 3.14.

ISD currently effectively utilizes a staff of 5 Carpentry Craft workers.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

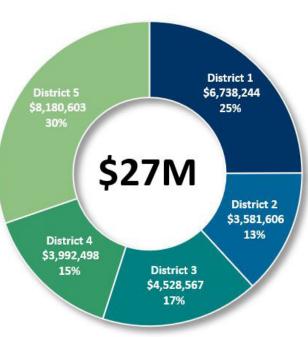


Figure 3.13: Potential Opportunities for Carpentry by District



Potential \$27M of Carpentry deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

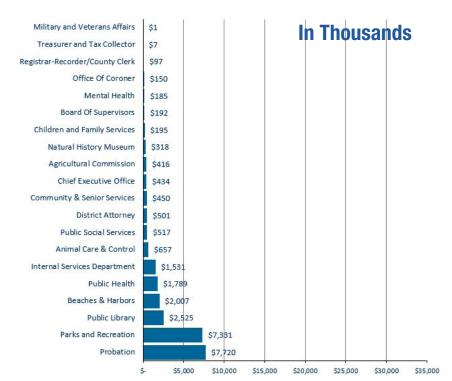


Figure 3.14: Potential Opportunities for Carpentry, by Tenant Department

The study shows the current Carpentry Craft workload on a high level, are divided amount the following in their respective percentages: 20% cabinets; 30% door repairs and replacement, including door frames, closers, etc.; 25% drywall, excluding taping and painting; and 25% ceilings.

Carpentry Craft also utilizes vendors to perform some of the work with the outside vendor's volume of work estimated at 10-15% of the total current day to day Craft workload.

To complete the total of \$27M of potential Carpentry work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 10 additional FTEs, as shown in Figure 3.15.

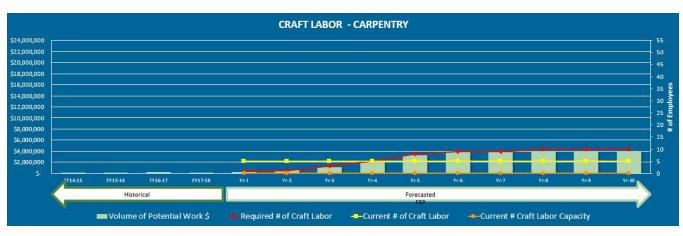


Figure 3.15: Carpentry Craft FTE to meet ISD Facilities Craft Program Demand

28



Additional 7 Electrical FTEs needed to meet demand

The data reflects that \$22M of the \$195M ISD Facilities Craft Program is attributed to the Electrical work. The analysis in Figure 3.16 shows that SD1 and SD3 represent 52% of the volume of potential work to be performed by the in-house Electrical Craft and the remaining 47% is spread between SD2, SD4, and SD5. The top tenant departments that carry the 48% of the potential carpentry deficiencies are Probation and Parks & Recreation, as shown in Figure 3.17. The third largest tenant department with potential Electrical work is ISD, with a total of \$2.4M out of the \$22M total work.

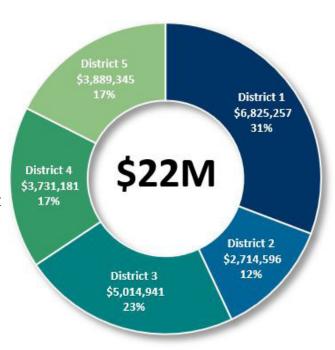


Figure 3.16: Potential Opportunities for Electrical by District



Potential \$22M of Electrical deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

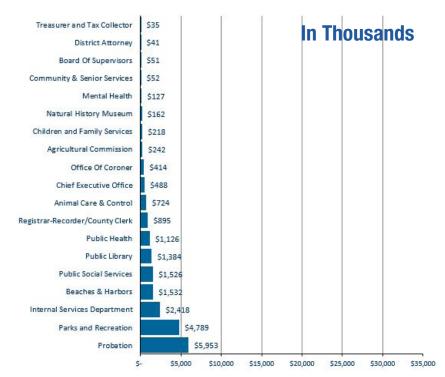


Figure 3.17: Potential Opportunities for Electrical, by Tenant Department

To complete the total of \$22M of potential Electrical work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 7 additional FTEs, as shown in Figure 3.18.

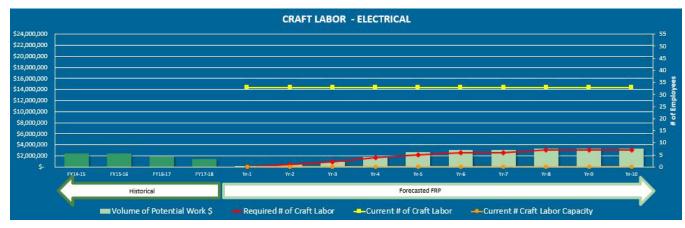


Figure 3.18: Electrical Craft FTE to meet ISD Facilities Craft Program Demand



Additional 10 Flooring FTEs needed to meet demand

The data reflects that \$20M of the \$195M ISD Facilities Craft Program is attributed to the Flooring work. The analysis in Figure 3.19 shows that SD1 represents almost half of the potential Flooring work at 47%. Though SD5 represents second place in terms of volume of work, it is far behind with 16% of the overall Flooring work. The remaining 37% is spread between SD2, SD3, and SD4. The top tenant department, Probation, was classified as the proprietor of nearly a third of the \$20M deficiency work, and remaining departments are as shown in Figure 3.20.

ISD currently effectively utilizes a staff of 1.5 Flooring Craft workers, one FTE currently acting as a supervisor.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

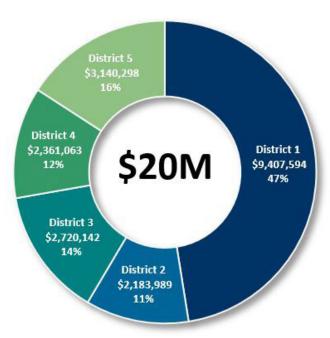


Figure 3.19: Potential Opportunities for Flooring by District



Potential \$20M of Flooring deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

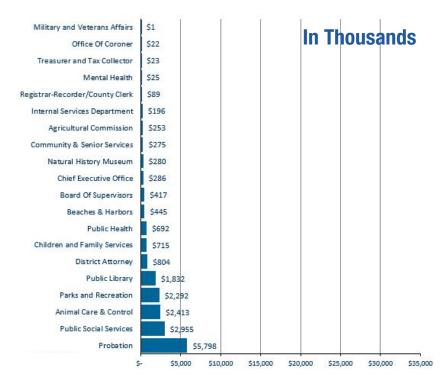


Figure 3.20: Potential Opportunities for Flooring, by Tenant Department

The study found the Flooring Craft currently handles all requests related to carpets, vinyl, all other soft flooring and surface preparation which requires between 60-75% of the total work load effort. Outside vendors are utilized at 10% of the total volume due to weekend and off-hours at the tenant department's needs. The Craft shop conveyed the shop is severely understaffed; therefore, almost 70% of the services requests are passed on to vendors.

A caveatted note, the Flooring Craft is unique in that the unit has the authority to provide delivery and execution of work above and beyond the \$50,000 Force Account limit.

To complete the total of \$20M of potential Flooring work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of an additional 10 FTEs, as shown in Figure 3.21.

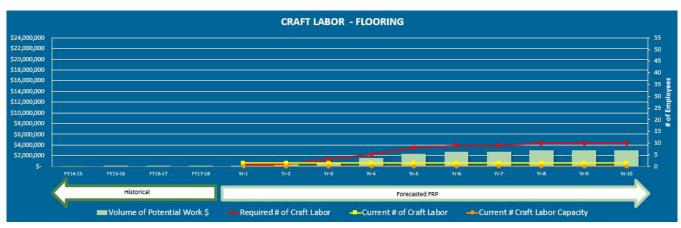


Figure 3.21: Flooring Craft FTE to meet ISD Facilities Craft Program Demand



Additional 4 HVAC FTEs needed to meet demand

The data reflects that \$14M of the \$195M ISD Facilities Craft Program is attributed to the HVAC work. The analysis in Figure 3.22 shows that SD1 and SD2 represent 58% of the volume of potential work to be performed by the in-house HVAC Craft and the remaining 42% is spread between SD3, SD4, and SD5. The top tenant departments that carry the almost half of the potential HVAC deficiencies at 43% are Parks & Recreation and ISD, as shown in Figure 3.23.

ISD currently effectively utilizes a staff of 22 HVAC Craft workers.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

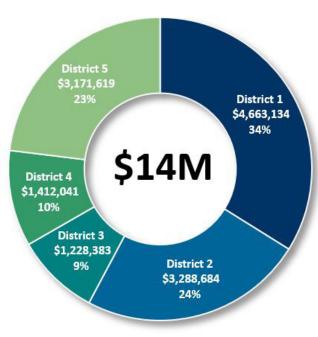


Figure 3.22: Potential Opportunities for HVAC by District



Potential \$14M of HVAC deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

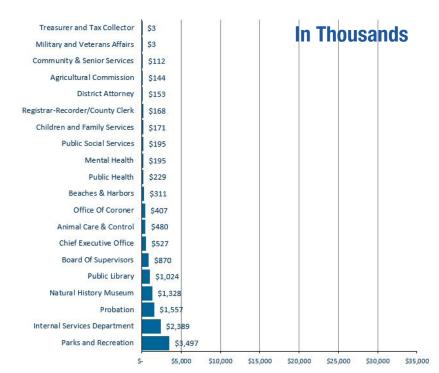


Figure 3.23: Potential Opportunities for HVAC, by Tenant Department

Interviews with Craft Management reveal the current workload is impacted by servicing, not only the 44M GSF of Los Angeles County assets, but also including "leased buildings." These buildings leased by the County are not recorded in the FAMIS system or SAM database, and adds 10% to the Craft's total workload.

HVAC Craft covers the components of controls, ducts, chillers, air handling units, chilled water pipes, pumps, valves, etc. It is noted that HVAC Craft requires having two separate crews: one for construction classified work and the other for maintenance classified work; with the former utilized for disaster circumstances such as earthquakes, floods and the like.

To complete the total of \$14M of potential HVAC work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 4 additional FTEs, as shown in Figure 3.24.

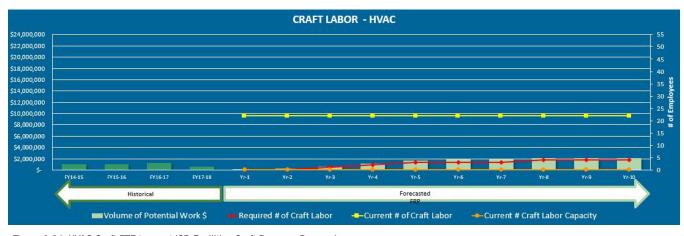


Figure 3.24: HVAC Craft FTE to meet ISD Facilities Craft Program Demand



Additional 5 Masonry FTEs needed to meet demand

The data reflects that \$11M of the \$195M ISD Facilities Craft Program is attributed to the Masonry work. The analysis in Figure 3.25 shows that SD1 and SD5 represent 64% of the volume of potential work to be performed by the in-house Masonry Craft and the remaining 36% is spread between SD2, SD3, and SD4. The top tenant departments that carry the 66% of the potential Masonry deficiencies are ISD, Probation and Parks & Recreation, as shown in Figure 3.26.

ISD currently effectively utilizes a staff of 6 Masonry Craft workers.

Based on the information provided by ISD, the Craft workers have a potential capacity to apply 10% of the work force (equivalent to 0.6 of an FTE) to be utilized in the ISD Facilities Craft Program effort.

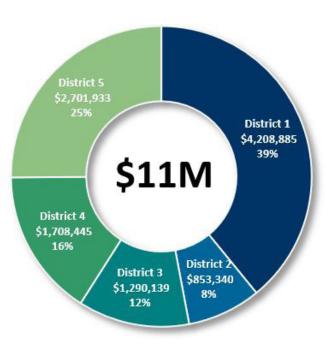


Figure 3.25: Potential Opportunities for Masonry by District



Potential \$11M of Masonry deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

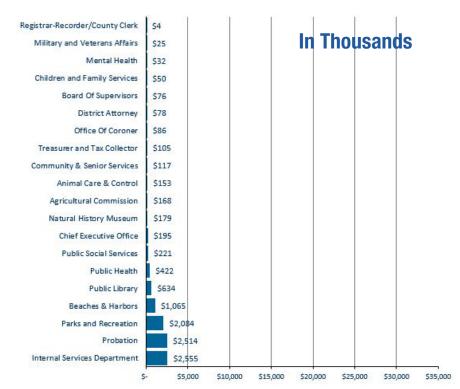


Figure 3.26: Potential Opportunities for Masonry, by Tenant Department

Interviews with Craft Management reveal the current workload is consists of work related to concrete finish, tile setting, demolition, epoxy coating, polyurethane fillers, plaster and stucco, brick and block laying, and stone veneer. Only specialized work is outsourced to vendors such as asphalt, parking lot slurries, epoxy coating, etc.

Working in pairs is a common occurrence and is taken into consideration by the Craft supervisors when assessing the efficiency of the team.

To complete the total of \$11M of potential Masonry work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 5 additional FTEs, as shown in Figure 3.27.



Figure 3.27: Masonry Craft FTE to meet ISD Facilities Craft Program Demand



Additional 3 Plumbing FTEs needed to meet demand

The data reflects that \$9M of the \$195M ISD Facilities Craft Program is attributed to the Plumbing work. The analysis in Figure 3.28 shows that SD1 and SD5 represent 60% of the volume of potential work to be performed by the in-house Plumbing Craft and the remaining 40% is spread between SD2, SD3, and SD4. The top tenant departments that carry the 65% of the potential Plumbing deficiencies are Probation, Parks & Recreation and ISD, as shown in Figure 3.29.

ISD currently effectively utilizes a staff of 16 Plumbing Craft workers.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

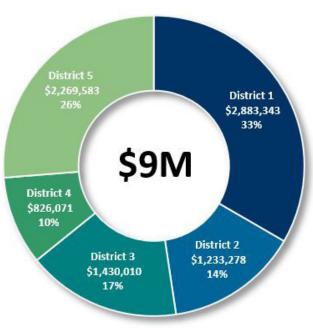


Figure 3.28: Potential Opportunities for Plumbing by District



Potential \$9M of Plumbing deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

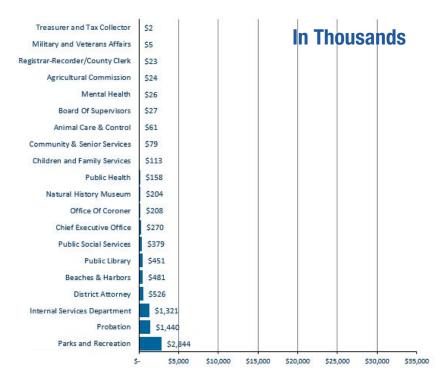


Figure 3.29: Potential Opportunities for Plumbing, by Tenant Department

ISD provided insight within the Plumbing Craft shop's current structure. The makeup of which is four separate teams within the Craft to segregate work streamlines, and each team is headed by one supervisor. The four sub-crafts, namely sewer and drainage, water, gas and fuel. Dependent on the complexity of the given service request, the work may be outsourced to an outside vendor. This occurrence is estimated at 5% of the total workload. ISD noted that two major factors affecting efficiency can be attributed to servicing leased buildings and the necessity of working in pairs.

To complete the total of \$9M of potential Plumbing work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 3 additional FTEs, as shown in Figure 3.30.



Figure 3.30: Plumbing Craft FTE to meet ISD Facilities Craft Program Demand



Additional 4 Painting/ Signage FTEs needed to meet demand

The data reflects that \$7M of the \$195M ISD Facilities Craft Program is attributed to the Painting/Signage work. The analysis in Figure 3.31 shows that SD1 and SD3 represent 65% of the volume of potential work to be performed by the in-house Painting/Signage Craft and the remaining 35% is spread between SD2, SD4, and SD5. The top tenant departments that carry the 65% of the potential Painting/Signage deficiencies are Probation, ISD and Parks & Recreation, as shown in Figure 3.32.

ISD currently effectively utilizes a staff of 6.5 Painting/ Signage Craft workers.

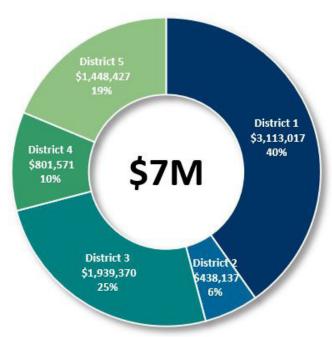


Figure 3.31: Potential Opportunities for Painting/Signage by District



Potential \$7M of Painting/ Signage deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

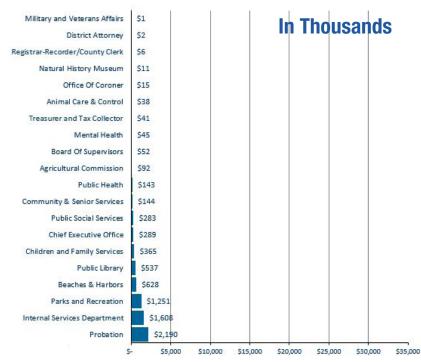


Figure 3.32: Potential Opportunities for Painting/Signage, by Tenant Department

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

A caveatted note, the Painting/Signage Craft is unique in that the unit has the authority to provide delivery and execution of work above and beyond the \$50,000 Force Account limit.

To complete the total of \$7M of potential Painting/Signage work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of 4 additional FTEs, as shown in Figure 3.33.



Figure 3.33: Painting/Signage Craft FTE to meet ISD Facilities Craft Program Demand



Additional <1 Metal Works Crafts needed to meet FRP demand

The data reflects that \$2M of the \$195M ISD Facilities Craft Program is attributed to the Metal Works work. The analysis in Figure 3.34 shows that SD3 and SD5 represent 46% of the volume of potential work to be performed by the in-house Metal Works Craft and the remaining 54% is spread between SD1, SD2, and SD4. The top tenant departments that carry the 76% of the potential Metal Works deficiencies are Parks & Recreation, Beaches & Harbor and Probation, as shown in Figure 3.35.

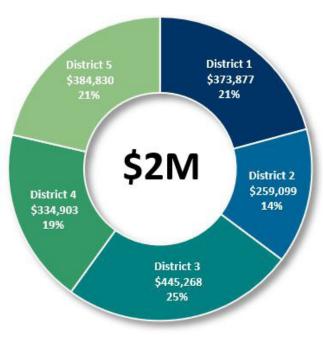


Figure 3.34: Potential Opportunities for Metal Works by District



Potential \$2M of Metal Works deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

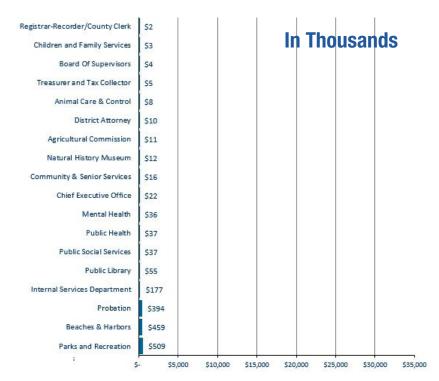


Figure 3.35: Potential Opportunities for Metal Works, by Tenant Department

ISD currently effectively utilizes a staff of 13 Metal Works Craft workers.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

To complete the total of \$2M of potential Metal Works work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of <1 additional FTE, as shown in Figure 3.36.

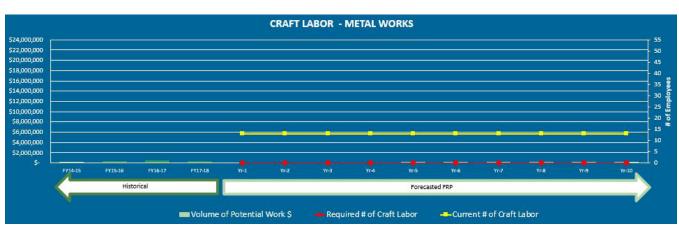


Figure 3.36: Metal Works Craft FTE to meet ISD Facilities Craft Program Demand



Additional <1 Elevators Crafts needed to meet FRP demand

The data reflects that \$0.3M of the \$195M ISD Facilities Craft Program is attributed to the Elevator work. The analysis in Figure 3.37 shows that SD1 represents 76% of the volume of potential work to be performed by the in-house Elevator Craft and the remaining 24% is spread between SD2, SD3, SD4 and SD5. The top tenant department that carries half of the potential Elevator deficiencies is Probation, as shown in Figure 3.38.

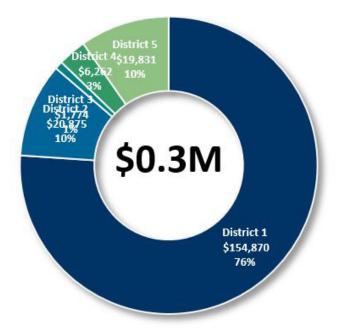


Figure 3.37: Potential Opportunities for Elevators by District



Potential \$0.3M Elevator deficiencies over 10 years

A strategic planning activity is recommended for ISD to determine how to fulfill the labor demand with consideration to organization goals, economic conditions, and the competitive work force.

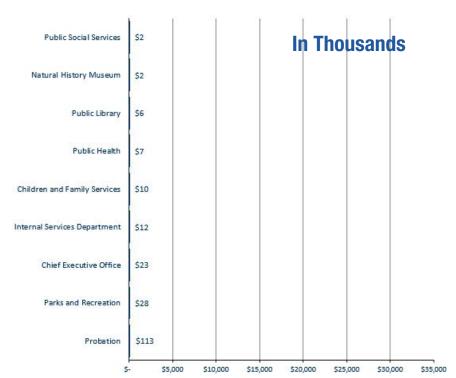


Figure 3.38: Potential Opportunities for Elevators, by Tenant Department

ISD currently effectively utilizes a staff of 9 Elevators Craft workers.

Based on the information provided by ISD, the Craft workers are occupied at 100% capacity and not available to be utilized in the ISD Facilities Craft Program effort.

To complete the total of \$0.3M of potential Elevator work over the course of 10 years, it was found that the peak FTE needed to meet the demand of the ISD Facilities Craft Program would be an equivalent of <1 additional FTE, as shown in Figure 3.39.

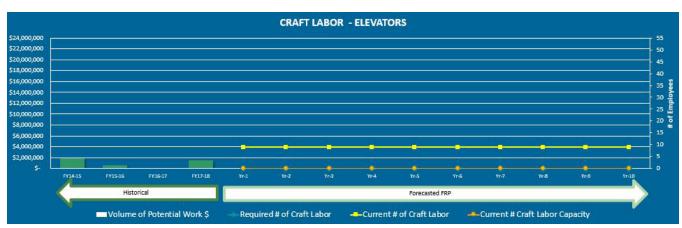


Figure 3.39: Metal Works Craft FTE to meet ISD Facilities Craft Program Demand





Disclaimer

Data analysis performed for this report should be considered broad, exploratory and a representation of qualitative data. This report reflects a theoretical perspective in which to hire Craft skilled labor over a 10-year duration. Approaches may vary depending on general considerations made by executing group, eventual distribution of the potential facility reinvestment work and the fluctuating capacity of the work force, and craft labor hire market. All such information is provided solely for guidance and information reference purposes only and all users thereof should be guided accordingly.



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Glossary of Terms

TERM	DEFINITION
Burdened Labor Rate	Labor rates provided by ISD for each Craft. Assumed to be compensation to ISD to include employee wages, costs for management salaries, and costs for employee benefits
Deficiency Cost	Cost estimate indicated in SAM Deficiency Report download
Deficiency Report	A data report downloaded from SAM, containing detailed work descriptions for spot repairs in the LA County buildings. Deficiencies on report exclude "Level 2" associated action items
Facilities Reinvestment Program	Also referred to as "FRP." Initiative by Chief Executive Office to address the backlog deferred maintenance needs of Los Angeles County. The FRP currently represents an investment of \$750M over a 5-year period: FY 17/18 through FY 22/23
Force Account	Employment of a labor force maintained under an expense account of a public body
Gross Square Foot	Also referred to as "GSF." The sum of all floor areas within the LA County buildings that exist with the outer faces of exterior walls; referenced in a SAM "All Buildings" Report download
Strategic Asset Management Database	Also referred to as "SAM." A web-based database used by ISD to assist in the management of Los Angeles County's assets, in tracking and recording facility conditions
Cohort	Maintenance and repair projects within the Facilities Reinvestment Program (FRP) which have been grouped together by Fiscal Year to accommodate planning, budgeting, building type, tenant, supervisory district, and craft area distribution



Alternative Staffing Approach by Severity Ranking

The staffing profiles described in this report assume that additional Craft FTEs are brought onboard over a 7- to 10-year duration to meet the demands of the FRP without adversely affecting the existing workload of ISD Craft in any area. In the Introduction section, potential approaches were described to fulfill the FTEs required to meet the demand of the ISD Facilities Craft Program.

As a sub-set to the Craft Participation Analysis, this study also provides another potential scenario in addressing the execution of \$195M work during the same 10 year duration.

In using the severity classification as the lead driver for the data output, the logic implies that work is to be performed by the levels of severity ranking. For example, in Year 1 the work performed would be those classified as 'Critical.' Those classified as 'High' are to be performed in Years 1 to 6; work under 'Medium' is to be performed in Years 1 to 9; and work under 'Low' to be performed in Years 5 to 10.

Figure 3.10 reflects the data output as per the described logic. The graph illustrates a surge of the work to be performed in Year 3 with the FTE count peaking at 54 FTEs at Year 4. This potential approach presents the \$195M scope of work at an efficient allocation throughout the 10-year duration, thus minimizing the impact to the volume of work per year and stabilizes the FTEs required to perform the work. This work plan would address the work in the nearer term to avoid further deterioration of the assets with the greatest severity.

ISD should pursue a strategic plan to determine the impact of labor onboarding durations with regard to applications, orientation, office-space planning, and operational expenses.

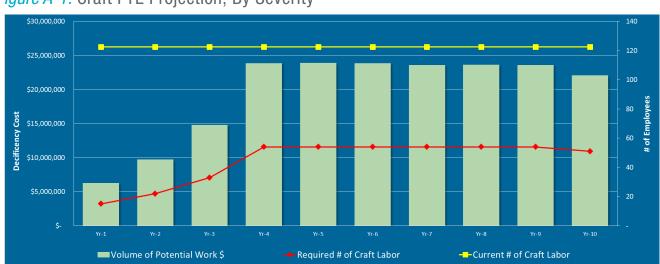


Figure A-1: Craft FTE Projection, By Severity



Figure A-2: Accelerate to final total ISD Facilities Craft Program staffing levels for all Craft area year 4 — Total peak additional FTEs equals 54



Figure A-3: Accelerate to final total Craft staffing by year 4 - Roofing peak additional FTEs equals 37



Figure A-4: Accelerate to final total Craft staffing by year 4 - Carpentry final peak additional FTEs equals 13





Figure A-5: Accelerate to final total Craft staffing by year 4 - Electrical final peak additional FTEs equals 5



Figure A-6: Accelerate to final total Craft staffing by year 4 — Flooring final peak additional FTEs equals 8

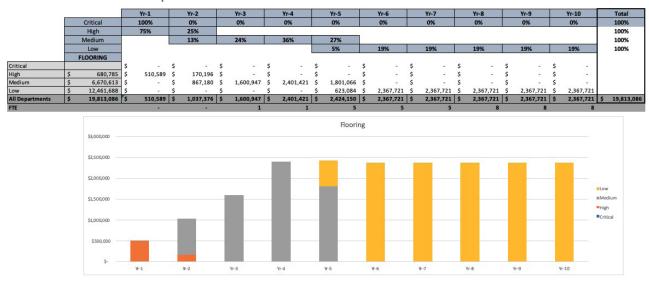


Figure A-7: Accelerate to final total Craft staffing by year 4 - HVAC final peak additional FTEs equals 6

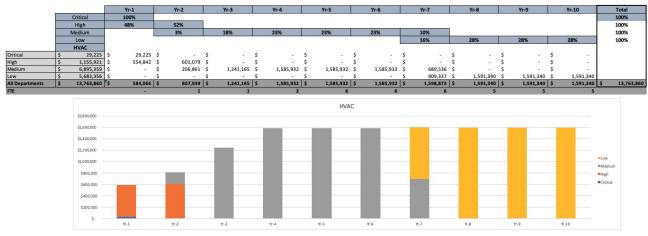




Figure A-8: Accelerate to final total Craft staffing by year 4 - Masonry final peak additional FTEs equals 4

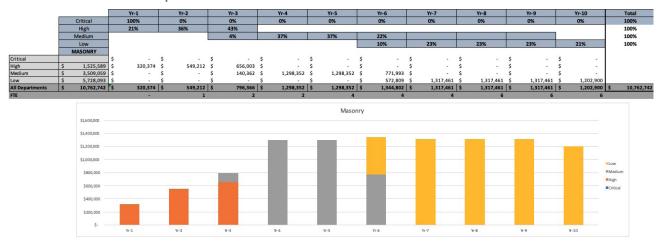


Figure A-9: Accelerate to final total Craft staffing by year 4 - Plumbing final peak additional FTEs equals 3

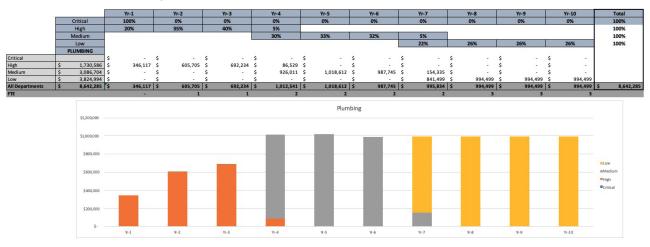


Figure A-10: Accelerate to final total Craft staffing by year 4 — Painting/Signage final peak additional FTEs equals 1

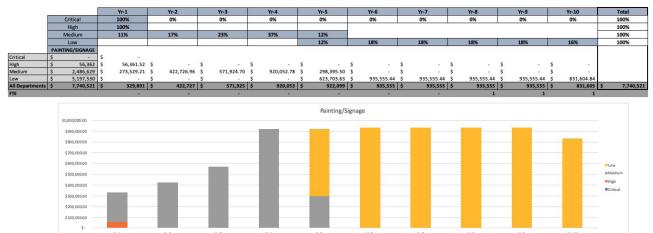




Figure A-11: Accelerate to final total Craft staffing by year 4 - Metal Works final peak additional FTEs equals <1

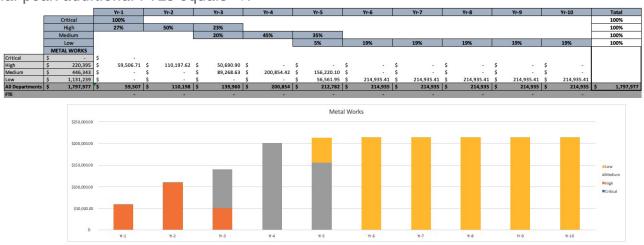
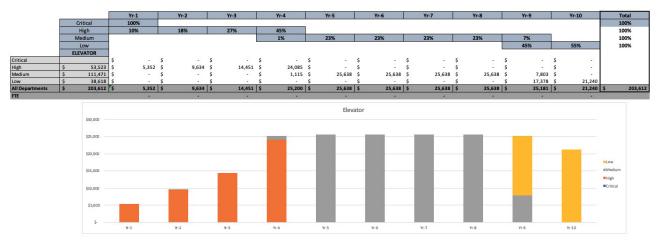


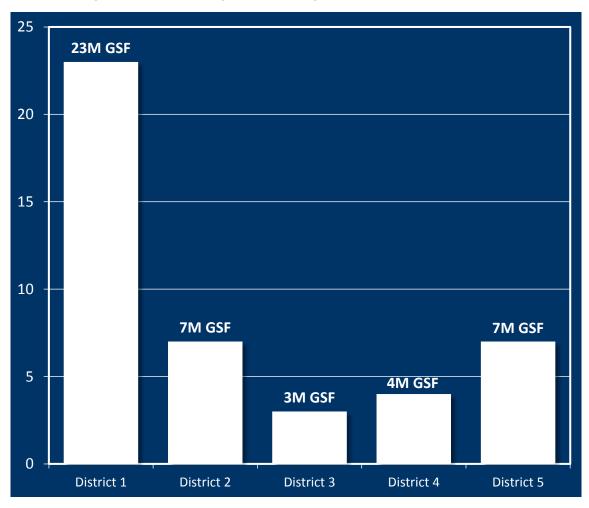
Figure A-12: Accelerate to final total Craft staffing by year 4 - Elevator final peak additional FTEs <1





Figures

Figure 1.1: County Assets Gross Square Feet, by District



LOS ANGELES COUNT

Figure 1.2: Potential Opportunities for ISD In-House Crafts, by District

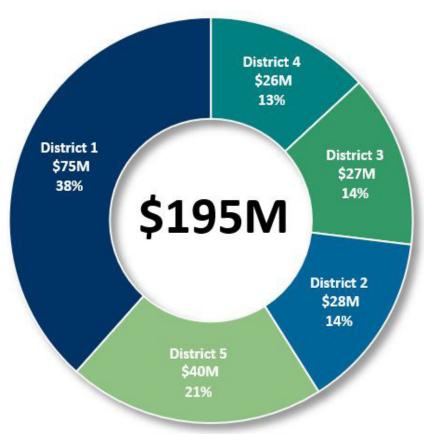


Figure 1.3: Potential Opportunities for ISD In-House Crafts, by Tenant Department

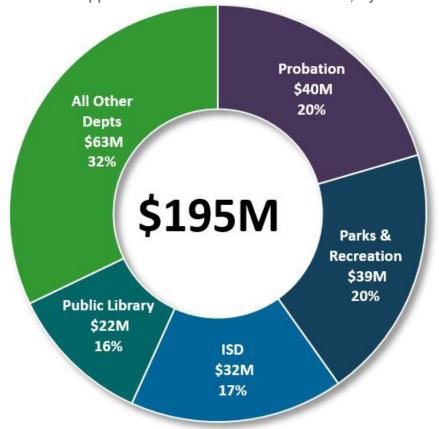




Figure 1.4: Potential Opportunities for ISD In-House Crafts, by Craft

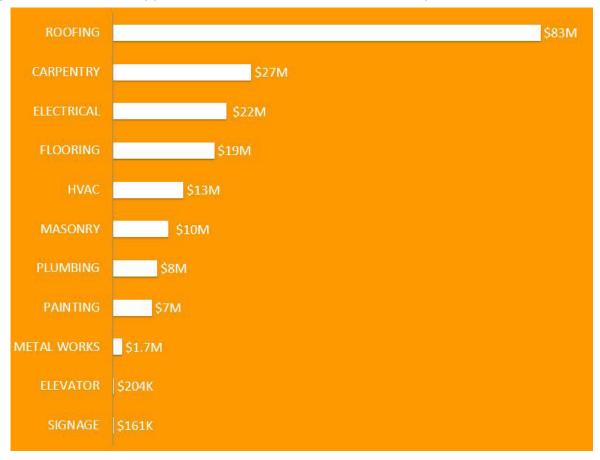
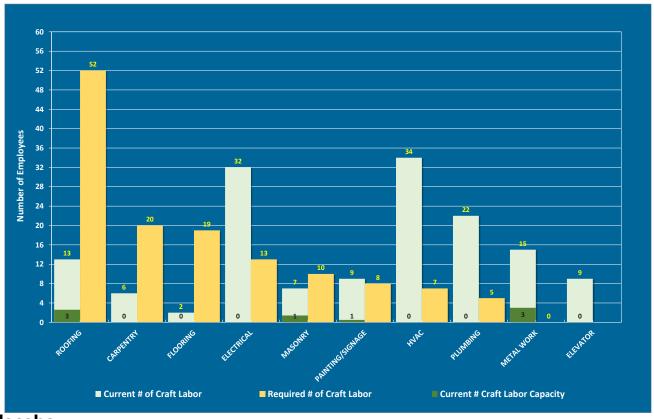


Figure 1.5: Current Craft FTE vs. Total Craft FTE Needed







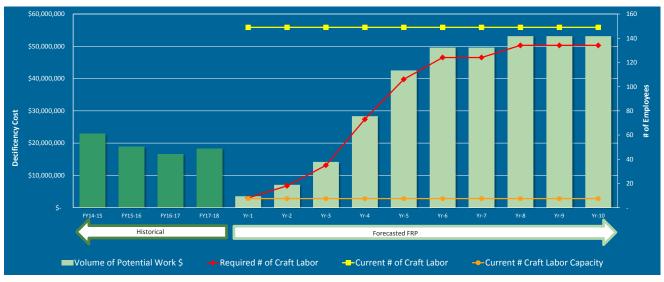


Figure 2.1: Crafts FTE - Deficiencies Report Download from the SAMS Database

	District	Site BIS	Site Name Buildin	L/Building Name	Room	Quantity	Proprietor	Classification	Classification Code	Туре	Severity	Action	Deficiency Co	
0006-35703	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		2	Health Services	Exterior Utility Doors	B2050.20	Rusted	Low	Repaint	\$	1,878.72
0006-35707	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		6	Health Services		B3010.50	Peeling	Medium	Minor repair	\$	275.55
0006-35710	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		600	Health Services	Plaster and Gypsum Board	A2010.20	Peeling	Low	Minor repair	\$	5,636.17
0006-35712	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North	102	2	Health Services	Cast-In-Place Concrete	A1010.10	Cracked	Low	Minor repair	\$	793.24
0006-35734	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		36	Health Services	Plaster and Gypsum Board	A2010.20	Bubbling	Low	Minor repair	\$	793.24
0006-35877	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		1	Health Services		D2060.10	Inoperable	Low	Remove	\$	521.87
0006-35954	District 2	00400	Martin Luther King Jr. Outpatient Centr0006	MLK - Leroy Weekes Medical Support Building - North		3	Health Services		A1010.10	Missing	Medium	Minor repair	\$	793.24
0007-48167	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co	enter 103	54	Health Services	Resilient Flooring	C2030.50	Broken	Low	Replace	\$	1,071.08
0007-48168	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		1	Health Services		D3050.50	Rusted	Low	Replace	\$	407.06
0007-48170	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		2	Health Services		B1080.10	Rusted	Low	Minor repair	\$	1,189.86
0007-48173	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		1	Health Services		E1010.30	Missing	Low	Replace	\$	8,809.13
0007-48175	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		1	Health Services	Interior Parking Gates	E1010.30	Missing	Low	Replace	\$	8,809.13
0007-48176	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		1	Health Services		B2050.90	Inoperable	Medium	Reinstall	\$	730.62
0007-48177	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		1000	Health Services		A1010.10	Efflorescence	Low	Minor repair	\$	2,609.34
0007-48183	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce	enter 104	1	Health Services		D5040.50	Inoperable	Medium	Replace	\$	730.62
0007-48184	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		8	Health Services	Parking Bumpers	G2020.40	Broken	Low	Replace	\$	1,920.4
0007-48185	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		1	Health Services		D5040.50	Missing	Medium	Replace	\$	939.3
007-48186	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		1000	Health Services	Cast-In-Place Concrete	A1010.10	Efflorescence	Low	Minor repair	\$	2,609.3
007-48187	District 2	00400	Martin Luther King Jr. Outpatient Centx0007	Parking Structure (Martin Luther King/Drew Medical Ce	enter B01	1	Health Services	Interior Parking Gates	E1010.30	Missing	Low	Replace	\$	8,809.1
007-48189	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		1	Health Services	Metal Railings	B1080.50	Rusted	Low	Repaint	\$	229.6
007-48192	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co	enter 106	1	Health Services	Interior Parking Fee Collection Equipmen	E1010.30	Deteriorated	Low	Minor repair	s	991.5
007-48193	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Ce		2	Health Services		B1080 50	Rusted	Low	Minor repair	\$	521.8
007-48194	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		7500	Health Services		A1010.10	Efforescence	Low	Minor repair	ś	17,221.6
007-48207	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		200	Health Services	Post-Tensioned CIP RC Slab & Anchora	B1015.10	Cracking (pattern)	High	Major repair	s	6.262.4
007-48208	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		20	Health Services		B1015.50	Deteriorated	Medium	Routine Maintenance	s	939.3
007-48208	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		200	Health Services	CIP RC Coldilli Supporting a Bealin	B1015.30	Cracking (pattern)	High	Followup study (Structure	- 6	9 393 6
007-48209	District 2	00400	Martin Luther King Jr. Outpatient Centr0007	Parking Structure (Martin Luther King/Drew Medical Co		150	Health Services	Post-Tensioned CIP RC Slab & Anchora		Cracking (shrinkage)	Medium	Minor renair		4 696 8
0392-60757	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	01 01	70	Probation		B1015.10 B2010.30	Worn	Low	Repaint	ž	1 300 4
0392-60759	District 5	40061	RMD2 - RD524 0039-2 RMD2 - RD524 0039-2	Guard Shack	01	21	Probation	Exterior Single-Panel Doors	B2010.30 B2050.30	Worn Broken		Minor renair	0	219.1
				Guard Shack Guard Shack					B2050:30 B2020:20		Low		\$	219.1
0392-60762	District 5 District 5	40061	RMD2 - RD524 0039-2 RMD2 - RD524 0039-2	Guard Shack Guard Shack	01	50 8	Probation Probation	Exterior Fixed Windows Reception Casework	B2020.20 F2010.30	Worn Deteriorated	Low Low	Replace Minor repair	\$	334.0 425.8
0392-60767	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	01	15	Probation		C2020	Worn	Low	Minor repair	\$	443.5
0392-60768	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	Ext N	1	Probation		B3020.70	Deteriorated	Low	Replace	\$	448.8
3392-60770	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	01	70	Probation		A2010.20	Peeling	Low	Repaint	\$	701.3
0392-60772	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	21	16	Probation		B3010.90	Peeling	Low	Repaint	\$	180.3
0392-60785	District 5	40061	RMD2 - RD524 0039-2	Guard Shack	01	1	Probation		D5020.30	Missing	Medium	Replace	\$	13,046.7
0394-60758	District 5	40061	RMD2 - RD524 0039-4	Storage	01	320	Animal Care & Control	Wood Flooring	C2030.45	Deteriorated	Low	Replace	\$	2,989.2
0394-60761	District 5	40061	RMD2 - RD524 0039-4	Storage	01	320	Animal Care & Control	Ceiling Painting and Coating	C2050.70	Rusted	Low	Repaint	\$	801.5
0394-60763	District 5	40061	RMD2 - RD524 0039-4	Storage	01	750	Animal Care & Control	Wall Painting and Coating	C2010.70	Dirty	Low	Repaint	s	1,878.7
0394-60766	District 5	40061	RMD2 - RD524 0039-4	Storage	Ext N	1200	Animal Care & Control	Fabricated Wall Panel Assemblies	B2010.30	Rusted	Low	Repaint	S	3.005.9
0394-60769	District 5	40061	RMD2 - RD524 0039-4	Storage	01	1	Animal Care & Control	Exterior Colling Doors	B2050.30	Stuck	Low	Replace	s	8.809.1
0394-60771	District 5	40061	RMD2 - RD524 0039-4	Storage	02	1	Animal Care & Control	Exterior Coiling Doors	B2050 30	Broken	Low	Replace	s	7.785.3
0394-60773	District 5	40061	RMD2 - RD524 0039-4	Storage	02	320	Animal Care & Control	Ceiling Painting and Coating	C2050 70	Rusted	Low	Repaint	s	801.5
0394-60809	District 5	40061	RMD2 - RD524 0039-4	Storage	02	320	Animal Care & Control	Wood Flooring	C2030.10	Deteriorated	Medium	Replace	š	3 135 3
0394-60810	District 5	40061	RMD2 - RD524 0039-4	Storage	02	750	Animal Care & Control	Wall Painting and Coating	C2010.70	Dirty	Low	Repaint	ě	1,878.7
0394-60810	District 5	40061	RMD2 - RD524 0039-4 RMD2 - RD524 0039-4	Storage	21	2	Animal Care & Control	Structural Panels	R1020 20	Rusted	High	Minor renair		751.4
0394-60819	District 5	40061	RMD2 - RD524 0039-4 0039-4	Storage	02	2	Animal Care & Control	Indoor Central-Station Air-Handling Units		Not Present	Medium	lortal	2	43.335.9
0394-60820	District 5	40061	RMD2 - RD524 0039-4 0039-4	Storage	Ext S	20	Animal Care & Control	Roadway Curbs and Gutters	G2010.30	Broken	Medium	Resurface	\$	542.7
		40061				1	Animal Care & Control		D5020 90			Remove	•	41.7
0394-60822	District 5	10742		Storage	Ext S 1004	1	Animal Care & Control Chief Executive Office		D5020.90 D5040.50	Dangerous	High			834.9
1011-18108	District 1		Hall of Justice 0101-1	Hall of Justice - Parking Structure		.1.				Inoperable	Medium	Replace	3	
1011-18112	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	104	200	Chief Executive Office		B1015.30	Cracking (pattern)	Medium	Resurface	\$	834.9
1011-18115	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	203	300	Chief Executive Office		B1015.30	Cracking (pattern)	Medium	Resurface	\$	1,252.4
1011-18117	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C1000	1	Chief Executive Office	Wiring Devices	D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18121	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C1009	1	Chief Executive Office	Wiring Devices	D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18143	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	1005	25	Chief Executive Office	CIP RC Column Supporting a Beam	B1015.50	Cracking (pattern)	Medium	Major repair	\$	3,026.8
1011-18146	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	1003	2	Chief Executive Office	Faced Panels	B2010.10	Missing	Medium	Minor repair	\$	1,252.4
1011-18183	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	905	4	Chief Executive Office		D5040.50	Inoperable	Medium	Replace	\$	2,922.4
1011-18184	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C910	1	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18186	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	902	1	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18188	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C809	1	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18191	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	801	1	Chief Executive Office	Wiring Devices	D5030.50	Noncompliant	Low	Replace	s	208.7
1011-18192	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C710	1	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18194	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	705	5	Chief Executive Office	Interior Lighting	D5040.50	Inoperable	Medium	Replace	š	3.653.0
1011-18196	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	C612	1	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	s	208.7
1011-18197	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	E609	1	Chief Executive Office	Wiring Devices	D5030.50	Noncompliant	Low	Replace	š	208.7
1011-18216	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	603	5	Chief Executive Office	Fences and Gates Performance Require		Dangerous	Low	Minor repair	š	5.218.6
1011-18217	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	603	1	Chief Executive Office		G2000.20 G2020.40	Missing	Low	Renaint	ě	626.2
1011-18277	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	606		Chief Executive Office	Parking Lot Traffic Signage	G2020.40 G2020.40	Broken	Medium	Replace	ě	1 565 6
1011-18277	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure Hall of Justice - Parking Structure	611	6	Chief Executive Office		G2020.40 G2020.40	Missing	Medium Low	Repaint	ž	3 131 2
	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure Hall of Justice - Parking Structure	614	2	Chief Executive Office		D5030.50	Noncompliant	Low	Replace	ě	3,131.2
	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure Hall of Justice - Parking Structure	C510	10	Chief Executive Office		D0030.50 D2010.90	Noncompliant Unsecured	Low	Install	ž	5 218 6
1011-18279	District 1	10742	Hall of Justice 0101-1 Hall of Justice 0101-1	mail or Justice - Parking Structure	C510 F101	100	Chief Executive Office	Meters and Gages Concrete Slah.on.Grade	D2010.90 B1015.30		Low	Install Resurface	0	5,218.6
1011-18279 1011-18283				Hall of Justice - Parking Structure						Cracking (pattern)			\$	
1011-18279 1011-18283 1011-18296	District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	611	1	Chief Executive Office		D3050.10	Leaking	Low	Minor repair	\$	1,043.7
1011-18279 1011-18283 1011-18296 1011-18301		10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure	E609	1	Chief Executive Office	Wiring Devices	D5030.50	Noncompliant	Low	Replace	\$	208.7
1011-18279 1011-18283 1011-18296 1011-18301 1011-18321	District 1		Hall of Justice 0101-1	Hall of Justice - Parking Structure	E101	3	Chief Executive Office		D1010.10	Broken	Low	Minor repair	\$	313.1
1011-18279 1011-18283 1011-18296 1011-18301 1011-18321 1011-18322	District 1 District 1	10742			C809		Chief Executive Office	Joint Sealants	B2010.90	Loose	Low	Install	S	834.9
1011-18279 1011-18283 1011-18296 1011-18301 1011-18321 1011-18322 1011-18325	District 1 District 1 District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure		20								
01011-18279 01011-18283 01011-18298 01011-18301 01011-18321 01011-18322 01011-18325 01011-18327	District 1 District 1 District 1 District 1	10742 10742	Hall of Justice 0101-1 Hall of Justice 0101-1	Hall of Justice - Parking Structure	C710	1	Chief Executive Office	Metal Stairs	B1080.10	Chipped	Low	Minor repair	s	2,087.4
1011-18279 1011-18283 1011-18298 1011-18301 1011-18321 1011-18322 1011-18325 1011-18327	District 1 District 1 District 1	10742	Hall of Justice 0101-1	Hall of Justice - Parking Structure Hall of Justice - Parking Structure Hall of Justice - Parking Structure		1 2			B1080.10 B2010.90	Chipped Cracking (shrinkage)	Low Medium	Minor repair Replace	\$	2,087.4 417.4
1011-18279 1011-18283 1011-18296 1011-18301 1011-18321 1011-18322 1011-18325 1011-18327	District 1 District 1 District 1 District 1	10742 10742	Hall of Justice 0101-1 Hall of Justice 0101-1	Hall of Justice - Parking Structure	C710	1 2	Chief Executive Office	Metal Stairs Joint Sealants			Low Medium		\$	
011-18279 1011-18283 1011-18296 1011-18301 1011-18321 1011-18322 1011-18325 1011-18327	District 1 District 1 District 1 District 1	10742 10742	Hall of Justice 0101-1 Hall of Justice 0101-1	Hall of Justice - Parking Structure	C710	1 2	Chief Executive Office	Metal Stairs Joint Sealants			Low Medium		s	



Figure 2.2: Deficiencies Report Download from the SAMS Database, Processed to add Proprietor and Classification Code Fields

ID	District	Site BIS	Site Name	Buildina L	Building Name	Room	Quantity	Classification	Type	Severity	Action	Deficiency C	ost
0006-35703	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	302	2	Exterior Utility Doors	Rusted	Low	Repaint	\$	1,878.72
	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	304	6	Low-Slope Roofing Cover	Peeling	Medium	Minor repair	\$	275.55
0006-35710	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	101	600	Plaster and Gypsum Board	Peeling	Low	Minor repair	s	5.636.17
0006-35712	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	102	2	Cast-In-Place Concrete	Cracked	Low	Minor repair	s	793.24
	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	151	36	Plaster and Gypsum Board	Bubbling	Low	Minor repair	s	793.24
0006-35877	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	302	1	Compressed-Air Equipment	Inoperable	Low	Remove	s	521.87
	District 2	00400	Martin Luther King Jr. Outpatient Center	0006	MLK - Leroy Weekes Medical Support Building - North	153	3	Cast-In-Place Concrete	Missing	Medium	Minor repair	š	793.24
0007-48167	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	103	54	Resilient Flooring	Broken	Low	Replace	s	1.071.08
0007-48168	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	103	1	Air Outlets and Inlets	Rusted	Low	Replace	Š	407.06
0007-48170	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	301	,		Rusted	Low	Minor repair	š	1.189.86
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	401	1	Tree and Shruh Removal and Tri		Low	Routine Maintenance	Š	1 148 11
0007-48173	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	102A	- 1	Interior Parking Gates	Missing	Low	Replace	č	8,809.13
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	102A		Interior Parking Gates	Missing	Low	Renlace	s	8 809 13
	District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center) Parking Structure (Martin Luther King/Drew Medical Center)	EXT-N	- 1	Door Hardware	Inoperable	Medium	Reinstall		730 62
							1					\$	
0007-48177	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	403 104	1000	Cast-In-Place Concrete	Efflorescence	Low	Minor repair	\$	2,609.34
	District 2		Martin Luther King Jr. Outpatient Center		Parking Structure (Martin Luther King/Drew Medical Center)		1	Exit Signs	Inoperable	Medium	Replace	\$	730.62
0007-48184	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	502	8	Parking Bumpers	Broken	Low	Replace	\$	1,920.47
0007-48185	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	403	1	Exit Signs	Missing	Medium	Replace	\$	939.36
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	B01	1000	Cast-In-Place Concrete	Efflorescence	Low	Minor repair	\$	2,609.34
0007-48187	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	B01	1	Interior Parking Gates	Missing	Low	Replace	\$	8,809.13
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	401	1	Metal Railings	Rusted	Low	Repaint	\$	229.62
0007-48192	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	106	1	Interior Parking Fee Collection Ed	Deteriorated	Low	Minor repair	\$	991.55
0007-48193	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	504	2	Metal Railings	Rusted	Low	Minor repair	\$	521.87
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	404	7500	Cast-In-Place Concrete	Efflorescence	Low	Minor repair	š	17.221.64
0007-48207	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	302	200	Post-Tensioned CIP RC Slab & A	Cracking (pattern)	High	Major repair	š	6,262.41
0007-48208	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	502	20	CIP RC Column Supporting a Be		Medium	Routine Maintenance	š	939.36
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center)	403	200	CIP RC Shear Walls	Cracking (pattern)	High	Follow-up study (Structura		9 393 62
0007-48210	District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007	Parking Structure (Martin Luther King/Drew Medical Center) Parking Structure (Martin Luther King/Drew Medical Center)	503	150	Post-Tensioned CIP RC Slab & A		Medium	Minor repair	S	4,696.81
	District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007 0007-B	MLK - Parking Lot B	P1	13	Metal Bollards	Peeling (snrinkage)	Low	Repaint	S	-,J00.01
0007B-53164 0007B-53165	District 2 District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B MLK - Parking Lot B	P1 Q3	13 60	Metal Bollards Parking Lot Curbs	Peeling Broken	Low Medium		\$	-
		00400					20						-
0007B-53166	District 2		Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	R5		Chain Link Fences and Gates	Broken	Medium	Minor repair	\$	-
0007B-53167	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	P5	10	Parking Lot Curbs	Cracked	Low	Minor repair	\$	-
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	L5	100	Parking Lot Curbs	Worn	Low	Resurface	\$	-
0007B-53176	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	F4	5	Parking Lot Lighting	Rusted	Medium	Repaint	\$	
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	D5	10	Parking Lot Pavement Markings		Low	Repaint	\$	-
0007B-53178	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	B5	4	Parking Bumpers	Broken	Low	Replace	\$	-
0007B-53181	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	B5	3	Exterior Signage	Rusted	Low	Repaint	\$	-
0007B-53182	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	D5	50	Roadway Curbs and Gutters	Cracked	Medium	Minor repair	\$	-
0007B-53183	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-B	MLK - Parking Lot B	D5	5	Rigid Pedestrian Pavement	Cracked	Low	Minor repair	\$	-
0007D-53121	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-D	MLK - Parking Lot D	D8	20	Parking Lot Curbs	Cracked	Low	Minor repair	\$	-
0007D-53123	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-D	MLK - Parking Lot D	D7	500	Parking Lot Curbs	Worn	Low	Repaint	s	-
0007D-53130	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-D	MLK - Parking Lot D	R6	40	Parking Lot Pavement Markings	Worn	Low	Repaint	s	-
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-D	MLK - Parking Lot D	P7	1	Parking Bumpers	Cracked	Low	Minor renair	Š	-
0007E-52965	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E	L6	4	Parking bumpers Parking Lot Curbs	Cracked	Low	Minor repair	Š	
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E	K6	1600	Parking Lot Curbs	Worn	Low	Repaint	s	
	District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E	H1	1000	Parking Lot Curbs	Cracked	Low	Minor renair	S	
0007E-52967	District 2	00400	Martin Luther King Jr. Outpatient Center Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E MLK - Parking Lot E	D8	15	Parking Lot Curbs Parking Bumpers	Cracked		Minor repair	-	-
										Low		\$	-
0007E-53099	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E	G2	10	Parking Lot Pavement Markings		Low	Repaint	\$	-
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-E	MLK - Parking Lot E	G2	900	Decorative Metal Fences and Ga		Low	Repaint	\$	-
0007F-52940	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-F	MLK - Parking Lot F	J4	900	Parking Lot Curbs	Worn	Low	Repaint	\$	-
	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-F	MLK - Parking Lot F	J4		Parking Lot Gutters	Cracked	Low	Minor repair	\$	-
0007F-52945	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-F	MLK - Parking Lot F	H5		Parking Lot Curbs	Cracked	Low	Minor repair	\$	-
0007F-52954	District 2	00400	Martin Luther King Jr. Outpatient Center	0007-F	MLK - Parking Lot F	A3	600	Decorative Metal Fences and Ga	Rusted	Low	Repaint	\$	-
0038-60638	District 5	40061	RMD2 - RD524	0038	Office	05	550	Composite Paneling	Uneven	Low	Replace	\$	19,288.24
	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	1		Missing	High	Install	s	167.00
	District 5	40061	RMD2 - RD524	0038	Office	01	1	Plaster and Gypsum Board	Punctured	Low	Minor renair	s	323.56
		40061	RMD2 - RD524	0038	Office	01	1		Punctured		Minor repair	9	323.56
	District 5							Plaster and Gypsum Board		Low		•	
	District 5	40061	RMD2 - RD524	0038	Office	21			Beyond Useful Life	Medium	Replace	\$	11,856.84
0038-60648	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	1	Panelboards	Missing	High	Install	\$	125.25
0038-60649	District 5	40061	RMD2 - RD524	0038	Office	Ext-S	150	Siding	Deteriorated	Medium	Replace	S	3,099.90
	District 5	40061	RMD2 - RD524	0038	Office	04	1	Interior Swinging Doors	Broken	Low	Minor repair	s	772.36
	District 5	40061	RMD2 - RD524	0038	Office	Ext-E			Broken	Medium	Repaint	•	167.00
												S	
	District 5	40061	RMD2 - RD524	0038	Office	04	5	Tile Wall Finish	Punctured	Low	Replace	>	688.87
0038-60655	District 5	40061	RMD2 - RD524	0038	Office	Ext-S	15	Joint Sealants	Missing	Medium	Reinstall	\$	313.12
0038-60657	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	2	Wiring Devices	Dangerous	High	Install	\$	83.50
0038-60658	District 5	40061	RMD2 - RD524	0038	Office	04	1	Fuel-Fired Domestic Water Heate	Missing	Medium	Install	S	396.62
0038-60659	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	2	Downspouts	Broken	Medium	Minor repair	s	334.00
	District 5	40061	RMD2 - RD524	0038	Office	21		Gutters	Dirty	Low	Clean	ē	417.49
												9	
0038-60661	District 5	40061	RMD2 - RD524	0038	Office	01	1	Exterior Utility Doors	Chipped	Low	Minor repair	\$	626.24
0038-60662	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	1	Wiring Devices	Noncompliant	High	Reinstall	\$	271.37
0038-60663	District 5	40061	RMD2 - RD524	0038	Office	Ext-N	2	Finish Grading	Eroded	High	Resurface	\$	146.12
					Page 1 o						SAMS Deficiency M		

Figure 2.3: All Buildings Report Download from the SAMS Database

Site BIS	Site Name Building LACO	Building Name District		Gross Square Feet Building Use	Building Consequence Disposition	FCI		Year Built
03687	El Monte Comprehensive L808	Parking Lot (DHS-El Monte Comp Health Ce 1	Health Services	63474 5210 Surface parking, open	1	1	711752	1983
00380	Harbor-UCLA Medical Ce 2063-3	Harbor-N-14 Storage Structure 2	Health Services	365 2710 Mini-warehouse	1 Mothballed	1	215553	1943
00320	LAC+USC Medical Cente 3989-1	Medical Center - Parking Lot 6A Shed 1	Health Services	790 6440 Electric substation and distributi	2 Active	1	862800	1965
08171	Enterprise Park 3028	Enterprise Service Building 2	Parks and Recreation	1055 2610 Light industrial structures and fa	2 Active	1	508102	1957
01000	Mira Loma Detention Cer 3626	Mira Loma Detention Facility 5	Sheriff	10247 4600 Jalls, penitentiaries, detention of	3 Unoccupied	1	9673190	1940
01290	Olive View Medical Cente 6289-2	Olive View-General Maintenance Storage St 5	Health Services	172 2700 Warehouse or storage facility	1 Active	1	116951	1964
08782	Topanga Beach X995-W	Topanga Beach - Parking Lot West (unpaver 3	Beaches & Harbors	32900 5210 Surface parking, open	1 Active	1	123795	1970
08336	Bonelli Regional Park X561-52	BRP Shade Structure - Type 3 5	Parks and Recreation	300 3700 Shade structure	1 Active	1	16722.3	1973
01290	Olive View Medical Cente 2243	Olive View-Transformer Vault 5	Health Services	72 6440 Electric substation and distributi	2 Closed		108297	1930
09470	Star Center Y533-25	Star Center Parking Lot 4 4	Sheriff	52786 5210 Surface parking, open	1		560710	1986
07961	Whittier Narrows Regions X746	Whittier Narrows Parks Bureau Police Statio 1	Parks and Recreation	895 2100 Office building	3 Active		953788	1939
08880	Santa Fe Dam Recreatio P005-44	SFD - Maintenance Storage Building 2 1	Parks and Recreation	160 2710 Mini-warehouse	1 Active		35173.4	1970
08880	Santa Fe Dam Recreatio P005-44 Santa Fe Dam Recreatio P005-45	SFD - Maintenance Storage Building 2 1	Parks and Recreation	240 2710 Mini-warehouse	1 Active		58313.7	1970
01290	Olive View Medical Cente 2138-2	Olive View Medical Center Fitness Center 5	Health Services		3 Mothballed		1967240	1970
				2606 3200 Indoor games facility				
01290	Olive View Medical Cente 0182-4		Health Services	226 2710 Mini-warehouse	1 Mothballed	1	143331	1970
11070	Carrie Test 0007-C	Test - Parking Lot C 2	Health Services	106272 5210 Surface parking, open	1	1	13568.6	1000
00101	Acton Rehabilitation Cent 2915-2	Acton Rehab - 2915-2 5	Public Health	480 2710 Mini-warehouse	1 Unoccupied	1	275093	1938
00380	Harbor-UCLA Medical Ce 2103	Harbor-Rei Psychiatry F-5.5 2	Health Services	1525 2111 Manufactured Office	2 Closed	1	369178	1975
00320	LAC+USC Medical Cente 5306-3	LAC + USC Parking Lot 5W 1	Health Services	31839 5210 Surface parking, open	1	1	447406	1958
00320	LAC+USC Medical Cente 4834-1	LAC + USC Parking Lot 4R 1	Health Services	62947 5210 Surface parking, open	1	1	763715	1950
00320	LAC+USC Medical Cente Y797-1	LAC + USC Parking Lot 4 1	Health Services	22593 5210 Surface parking, open	1	1	394390	1978
00320	LAC+USC Medical Cente 4833-2	LAC + USC Parking Lot 4A 1	Health Services	59362 5210 Surface parking, open	1	1	1856530	1950
10748	H. Claude Hudson Comp L673-1	H Claude Hudson Comp Health Center Park 1	Health Services	15661 5210 Surface parking, open	1	1	209045	1979
01000	Mira Loma Detention Cer 4165	Mira Loma Kitchen and Mess Hall 5	Sheriff	43900 2220 Restaurant building	2 Unoccupied	1	27742500	1962
06456	NHM Warehouse Y399	NHM Warehouse 1	Natural History Museum	36776 2700 Warehouse or storage facility	1 Active	1	18032100	1933
01290	Olive View Medical Cente 2222-1	Olive View-Bungalow I Storage 5	Health Services	130 2710 Mini-warehouse	1 Active		100499	1927
01290	Olive View Medical Cente 2242	Olive View-Film Storage Vault 5	Health Services	280 2700 Warehouse or storage facility	1 Mothballed	1	189982	1930
01000	Mira Loma Detention Cer 3622	Mira Lima Outside Maintenance & Storage 9 5	Sheriff	1500 2100 Office building	3 Unoccupied	1	642145	1940
01000	Mira Loma Detention Cer 3929-1	BOQ Pool Restrooms 5	Probation	500 6930 Public Restrooms	2 Mothballed		195323	1950
01000	Mira Loma Detention Cer 3929-2	BOQ Pool Shed 5	Sheriff	200 6310 Storage or pumping station facil	2 Mothballed		97397.8	1950
01000	Mira Loma Detention Cer 3929-3	BOQ Pool Shade Structure 5	Prohation	800 3700 Shade structure	1 Mothballed		83606.2	1950
00320	LAC+USC Medical Cente 0261-4	Medical Center - Flectrical Vault #3 1	Health Services	150 6440 Electric substation and distributi	2 Active		242662	1975
00320					5 Active		1438470000	1932
	LAC+USC Medical Cente 0835	Medical Center-General Hospital (Former Ho 1	Health Services	1424000 4110 Hospital building		1		1932
01000	Mira Loma Detention Cet 4269-5		Probation	600 6310 Storage or pumping station facil	2 Active	1	132268	1940
01000	Mira Loma Detention Cer 3620-1	Ceramic Oven Structure 5	Probation	50 3700 Shade structure	1 Unoccupied	1	37429.6	1940
01000	Mira Loma Detention Cer 3623-1	Bungalow Storage Shed 5	Probation	200 2700 Warehouse or storage facility	1 Mothballed	1	116072	1940
00320	LAC+USC Medical Cente 2484	Medical Center-Women's And Children's Ho 1	Health Services	670000 4110 Hospital building	5 Closed	1	495338000	1956
00320	LAC+USC Medical Cente 3309	Medical Center-Incinerator And Office 1	Health Services	300 2615 Laboratory or specialized indust	4 Unoccupied	1	482616	1932
01000	Mira Loma Detention Cer 3626-46	Mira Loma - Shade Structure 11 5	Probation	100 3700 Shade structure	1 Unoccupied	1	42462.6	1940
00320	LAC+USC Medical Cente 0835-8	LAC + USC Loading Dock 2 1	Health Services	16748 5210 Surface parking, open	1	1	173247	1985
08213	Hart Park 4281-20	Frew Gas Storage 5	Parks and Recreation	120 2700 Warehouse or storage facility	1 Active	1	108575	1926
08440	Castaic Lake X230	Comfort Station C 5	Parks and Recreation	531 6930 Public Restrooms	2 Unoccupied	1	213331	1970
08440	Castaic Lake X231	Comfort Station D 5	Parks and Recreation	494 6930 Public Restrooms	2 Unoccupied	1	219542	1970
01000	Mira Loma Detention Cer 3618	Mira Loma - Outside Maintenance & Storage 5	Sheriff	1500 2100 Office building	3 Mothballed	1	1703250	1940
40061	RMD2 - RD524 0039-6	Material Storage 5	Public Works	2021 6310 Storage or pumping station facil	2 Active	1	461005	1954
00320	LAC+LISC Medical Cente 6486	Medical Center-Building 120 - Supplies Ware 1	Health Services	1604 2700 Warehouse or storage facility	1 Active		895322	1960
01000	Mira Loma Detention Cer 3627-2	Mira Loma - Old Side Canteen 5	Sheriff	742 4600 Jails, penitentiaries, detention of	3 Unoccupied		875736	1980
00320	LAC+USC Medical Cente 2484-3	LAC + USC Parking Lot 7 1	Health Services	17631 5210 Surface parking, open	4	0.993996	308804	1956
01200	Camp Munz 4258-S	Munz and Mendenhall - Site 5	Probation Probation	1328754 4600 Jails, penitentiaries, detention of	3 Closed	0.990081	1077860000	1958
02500	North County Corrections 5884-24	PDC Facilities Services Bureau Managemen 5	Sheriff	3229 2100 Office building	3 Closed	0.989072	3418820	194
02500	LA County Arboretum and 5984	Santa Anita Denot 5	Parks and Recreation	1840 4400 Museum, exhibition, or similar fa	3 Active	0.989072	1620060	189
10748	H. Claude Hudson ComplL673	H Claude Hudson Comp Health Center Park 1		20578 5210 Surface parking, open	SIACIIVE	0.978896	1620060	1890
			Health Services		1 2 Active		191996	1975
08073		Arcadia Substation 2 5	Parks and Recreation	20 6440 Electric substation and distributi	2 Active	0.972277		
10748	H. Claude Hudson Comp L673-2	H Claude Hudson Lot 3 1	Health Services	25179 5210 Surface parking, open	1	0.968203	264129	1979
10748	H. Claude Hudson Comp L673-3	H Claude Hudson Comp Health Center Park 5	Health Services	0 5210 Surface parking, open	1	0.966535	93775.6	1979
08120	Charter Oak 5233-1	Charter Oak Electrical Substation 5	Parks and Recreation	20 6440 Electric substation and distributi	2 Active	0.962138	103900	195
08073	Arcadia Park 0166-2	Arcadia Substation 3 5	Parks and Recreation	20 6440 Electric substation and distributi	2 Active	0.959193	96402.8	195
00320	LAC+USC Medical Cente 4769	Medical Center-Radiation Substation Vault 1	Health Services	304 6440 Electric substation and distributi	2 Active	0.954112	459901	193: 197
00320	LAC+USC Medical Cente 5099	Medical Center-Laboratory 1	Health Services	2900 2615 Laboratory or specialized indust	4 Unoccupied	0.950392	3990580	
04500	LA County Arboretum an X469	Queen Anne Cottage 5	Parks and Recreation	4604 4400 Museum, exhibition, or similar fa	3 Active	0.947745	3933020	188
00320	LAC+USC Medical Cente 0809	Medical Center-Thrift Shop 1	Health Services	2300 2230 Standalone store or shop buildir	2 Active	0.946556	896282	
01000	Mira Loma Detention Cer 4268-1	Northeast Guard Shack (38) 5	Sheriff	60 6910 Klosks	1 Unoccupied	0.944904	50399.7	190 200
08570	Washington Golf Course 5170-1	Washington GC - Storage Building 2	Parks and Recreation	162 2710 Mini-warehouse	1 Unoccupied	0.944204	164857	196
08580	Whittier Narrows Golf Co 4535	Whittier Narrows Pumphouse 2 1	Parks and Recreation	150 6310 Storage or pumping station facil	2 Active	0.942857	72892.2	195
08307	Parks & Recreation East X269-1	East Services Agency Weld Shop 1	Parks and Recreation	1600 2610 Storage or pumping station racin	2 Mothballed	0.938771	665158	196
08352	Franklin D. Roosevelt Pal 3121	F.D. Roosevelt - Electric Vault 1 2	Parks and Recreation	30 6440 Electric substation and distributi	2 Active	0.935065	90872.2	196
00332	LAC+USC Medical Cente 0256-2	LAC + USC Parking Lot 8 MRI/Expenditure 1	Health Services	10214 5210 Surface parking, open	2 Active	0.93306	428201	190
10200		Pacoima Mechanical Shop 3		10214 5210 Surface parking, open 4854 5400 Bus or truck maintenance facility	1 2 Anthus	0.93306	428201 2488960	195
	Pacoima Shops Y590		Fire Department		2 Active			
01290	Olive View Medical Cente Y765-7	Olive View-Main Hospital Guardhouse 5	Health Services	161 6910 Klosks	1 Active	0.924221	88495.7	198
		Coach Barn 5	Parks and Recreation	6150 4400 Museum, exhibition, or similar fa	3 Active	0.923718	4661040	187
04500	LA County Arboretum and X470							
	LA County Arboretum an X470 Camp Afflerbaugh 4395 LAC+USC Medical Cente 0822	Camp Afflerbaugh/Paige- Electrical Vault 5 Medical Center-Pharmacy Building 1	Probation Health Services	35 6440 Electric substation and distributi 58000 2700 Warehouse or storage facility	2 Active	0.923463 0.921802	188964 25745000	196 191



Figure 3.1: Potential Opportunities for ISD In-House Crafts, by District

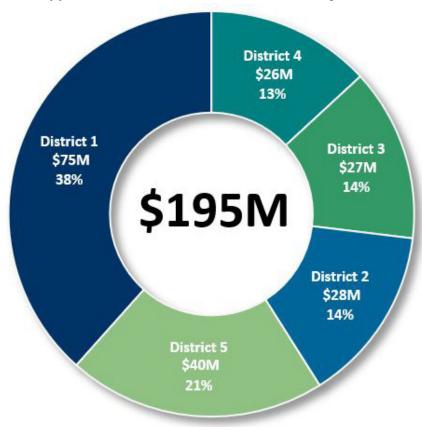


Figure 3.2: County Assets Gross Square Feet, by District

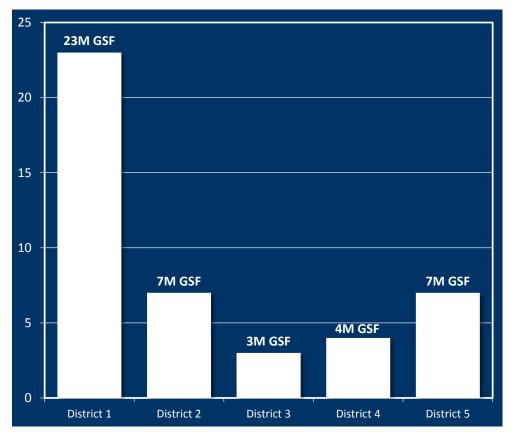




Figure 3.3: Potential Opportunities for ISD In-House Crafts, by Craft

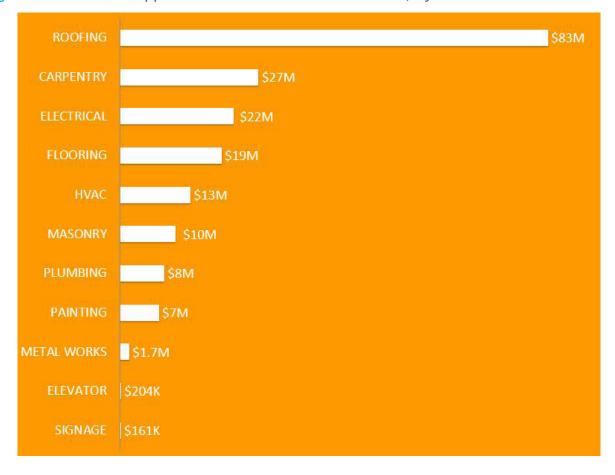


Figure 3.4: Potential Opportunities for ISD In-House Crafts, by District, by Craft

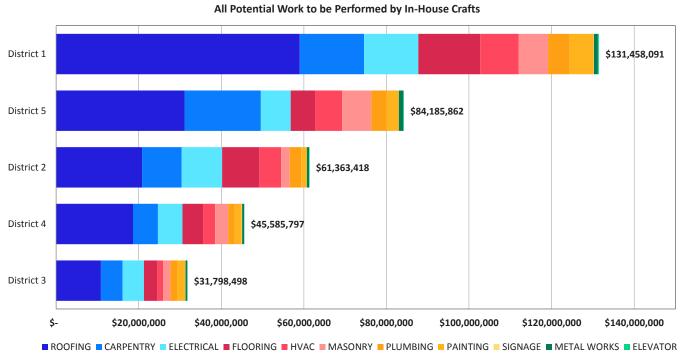




Figure 3.5: Potential Opportunities for ISD In-House Crafts, by Tenant Department

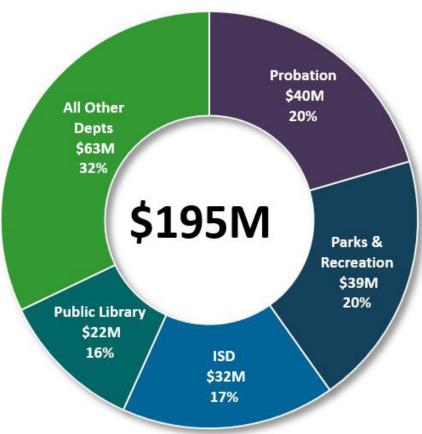


Figure 3.6: County Assets Gross Square Footage (including DHS, LASD, DPW, and DHS),





Figure 3.7: Potential Opportunities for ISD In-House Crafts, by Tenant Department

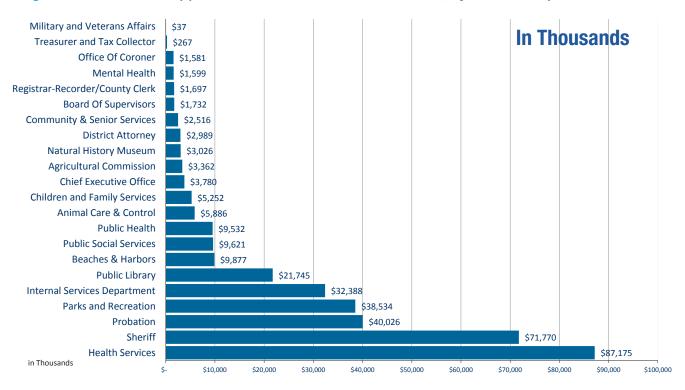
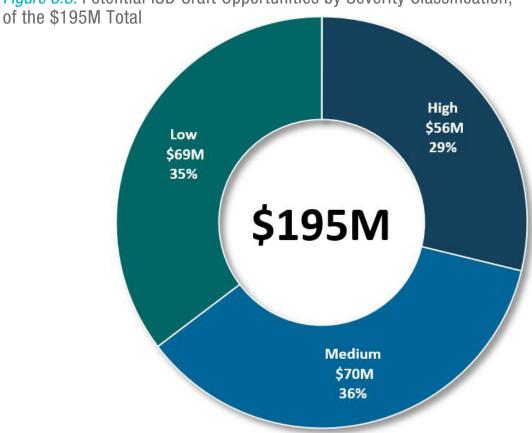


Figure 3.8: Potential ISD Craft Opportunities by Severity Classification,





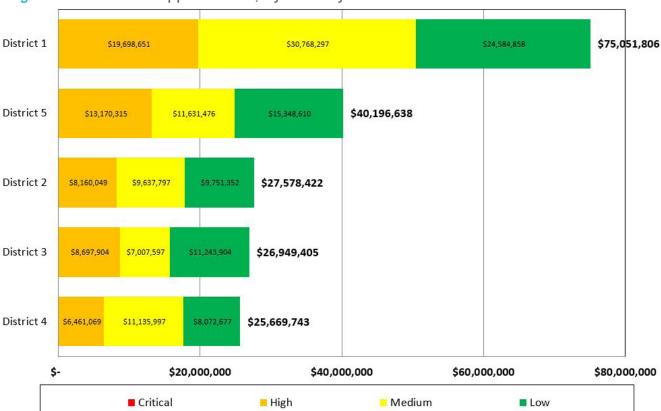


Figure 3.9: Potential Opportunities, by Severity Classification and District



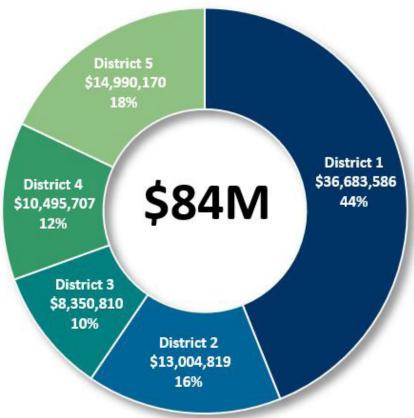




Figure 3.11: Potential Opportunities for Roofing, by Tenant Department

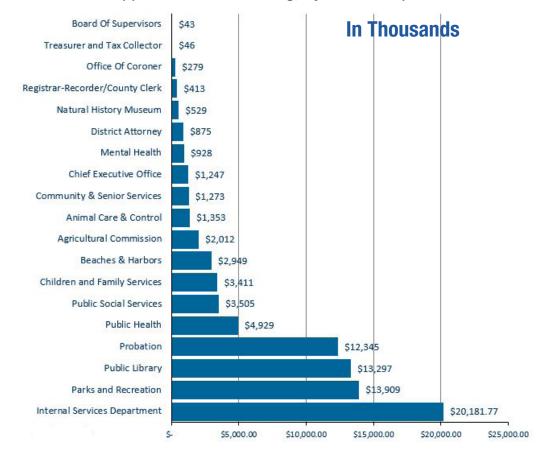


Figure 3.12: Roofing Craft FTE to meet ISD Facilities Craft Program Demand



LOS ANGELES COUNTY

Figure 3.10.1: Potential Opportunities for Roofing by District

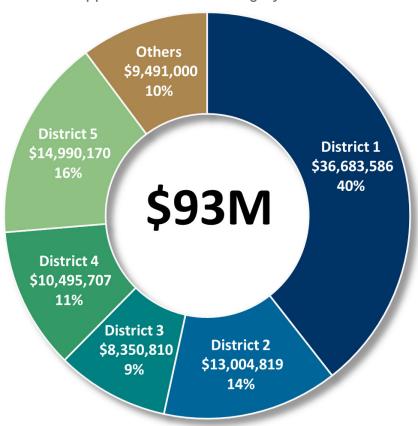






Figure 3.11.1: Potential Opportunities for Roofing, by Tenant Department (inclusive of Cohort 1 & Cohort 2)

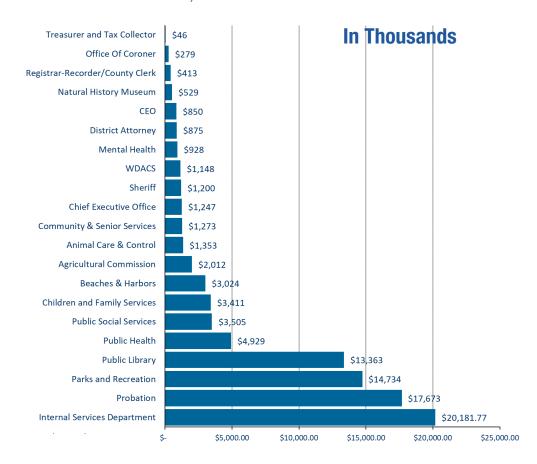


Figure 3.12.1: Roofing Craft FTE to meet ISD Facilities Craft Program Demand (inclusive of Cohort 1 & Cohort 2)

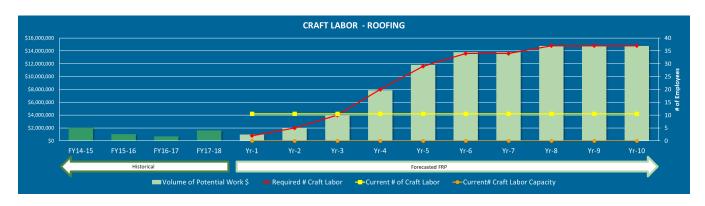




Figure 3.13: Potential Opportunities for Carpentry by District

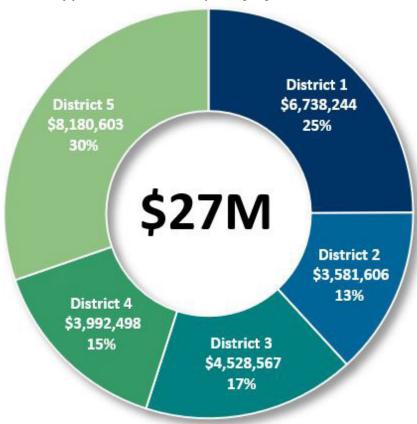


Figure 3.14: Potential Opportunities for Carpentry, by Tenant Department

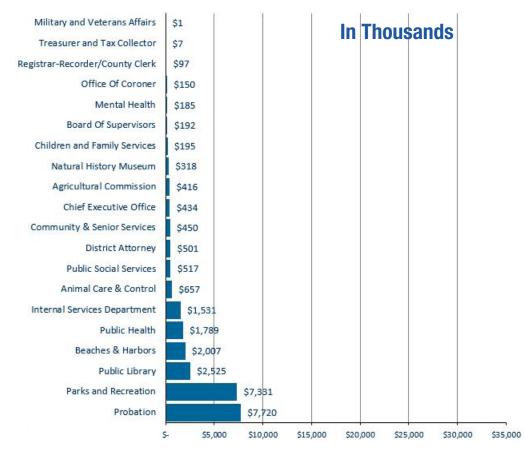




Figure 3.15: Carpentry Craft FTE to meet ISD Facilities Craft Program Demand

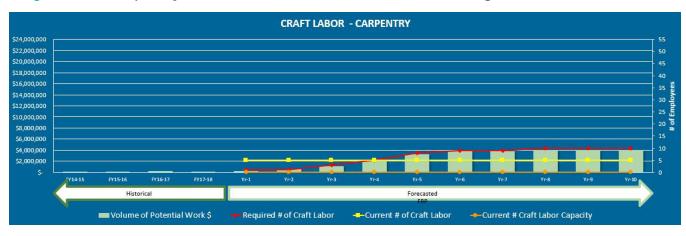


Figure 3.16: Potential Opportunities for Electrical by District

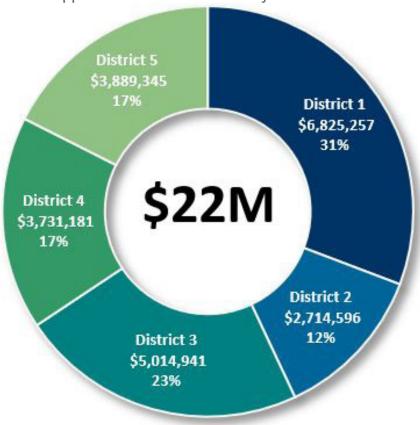




Figure 3.17: Potential Opportunities for Electrical, by Tenant Department

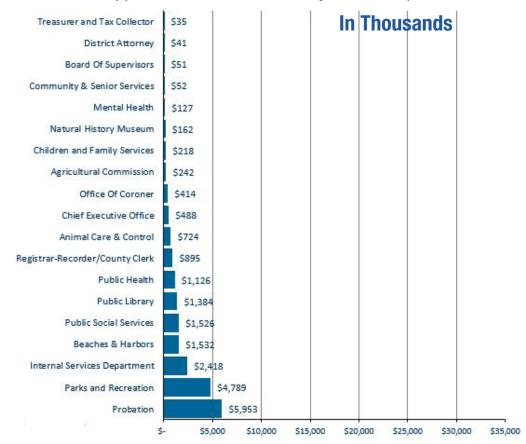


Figure 3.18: Electrical Craft FTE to meet ISD Facilities Craft Program Demand

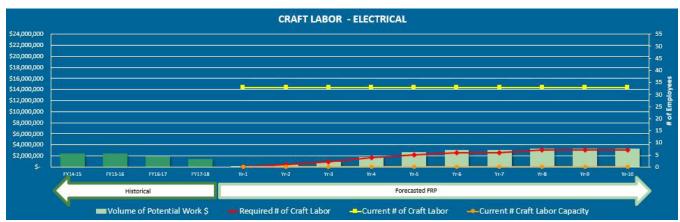




Figure 3.19: Potential Opportunities for Flooring by District

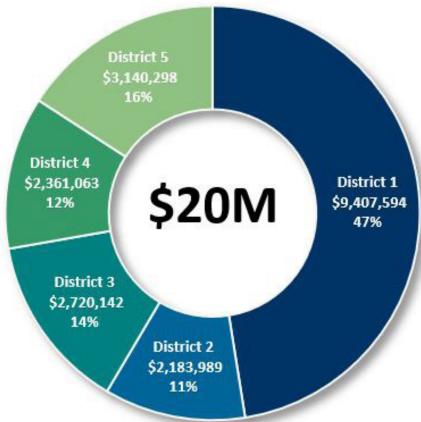
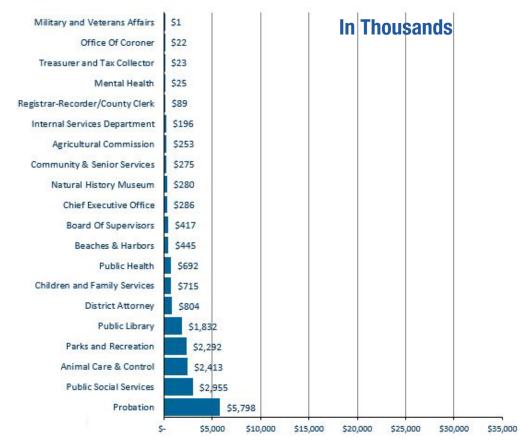


Figure 3.20: Potential Opportunities for Flooring, by Tenant Department



LOS ANGELES COUNT

Figure 3.21: Flooring Craft FTE to meet ISD Facilities Craft Program Demand

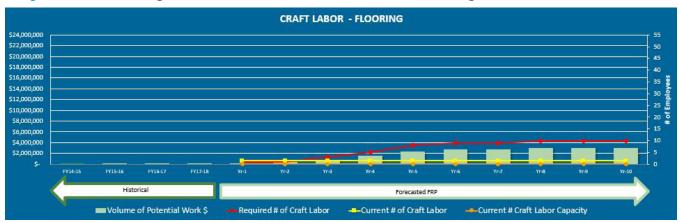
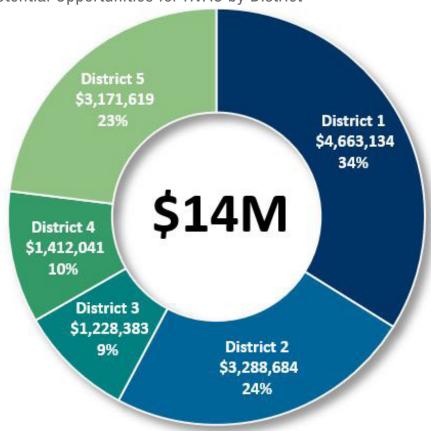


Figure 3.22: Potential Opportunities for HVAC by District



₇₀ Jacobs



Figure 3.23: Potential Opportunities for HVAC, by Tenant Department

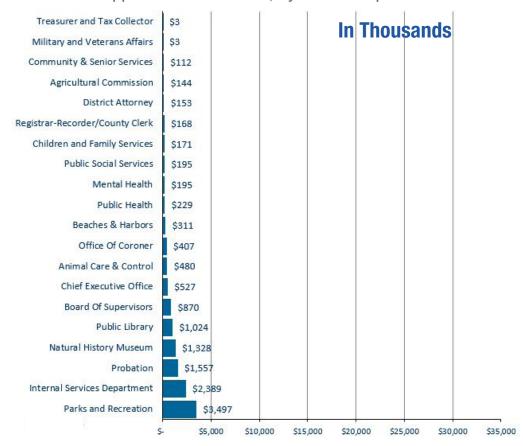
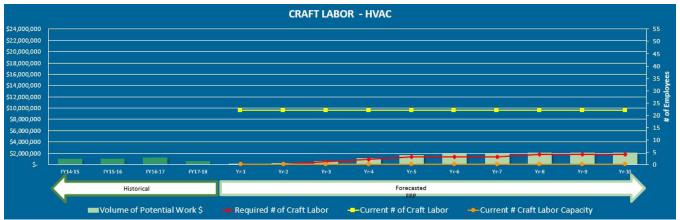


Figure 3.24: HVAC Craft FTE to meet ISD Facilities Craft Program Demand



LOS ANGELES COUNTY

Figure 3.25: Potential Opportunities for Masonry by District

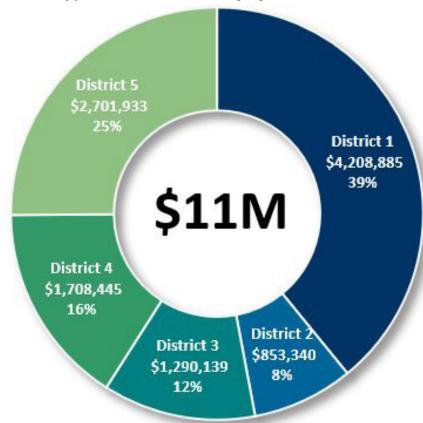


Figure 3.26: Potential Opportunities for Masonry, by Tenant Department

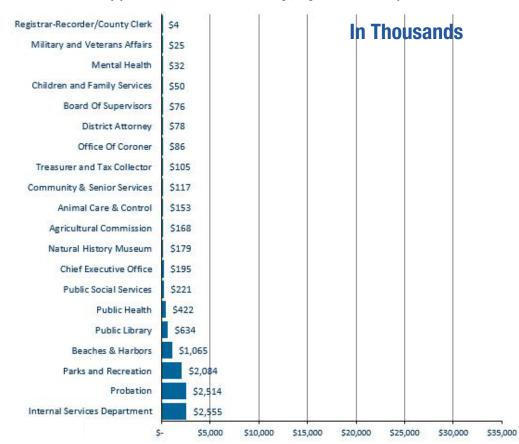
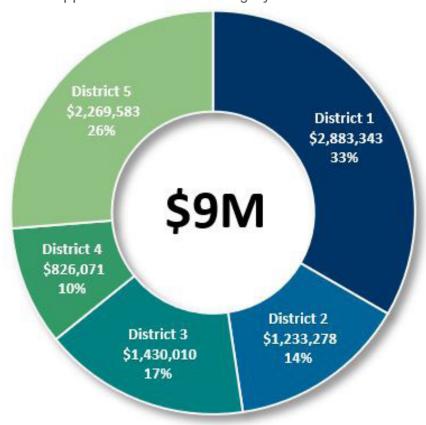




Figure 3.27: Masonry Craft FTE to meet ISD Facilities Craft Program Demand



Figure 3.28: Potential Opportunities for Plumbing by District



LOS ANGELES COUNTY

Figure 3.29: Potential Opportunities for Plumbing, by Tenant Department

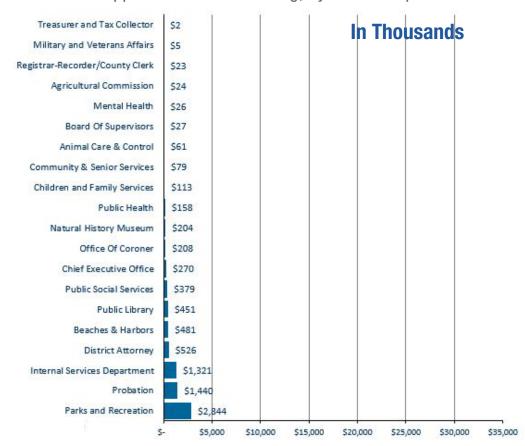


Figure 3.30: Plumbing Craft FTE to meet ISD Facilities Craft Program Demand





Figure 3.31: Potential Opportunities for Painting/Signage by District

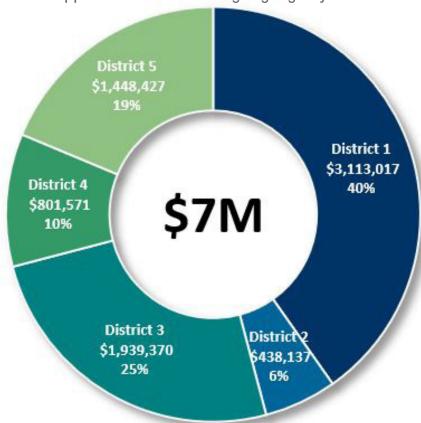
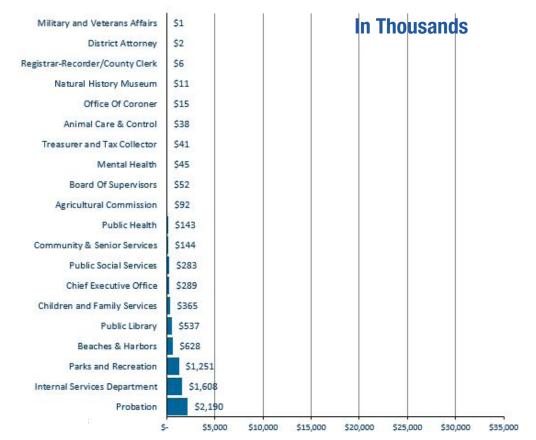


Figure 3.32: Potential Opportunities for Painting/Signage, by Tenant Department



LOS ANGELES COUNT

Figure 3.33: Painting/Signage Craft FTE to meet ISD Facilities Craft Program Demand



Figure 3.34: Potential Opportunities for Metal Works by District

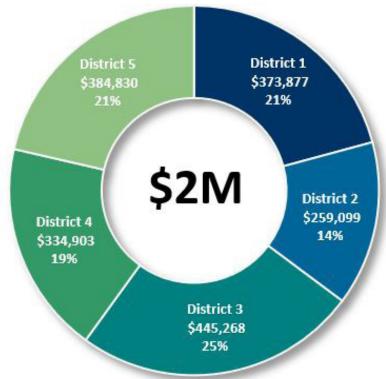




Figure 3.35: Potential Opportunities for Metal Works, by Tenant Department

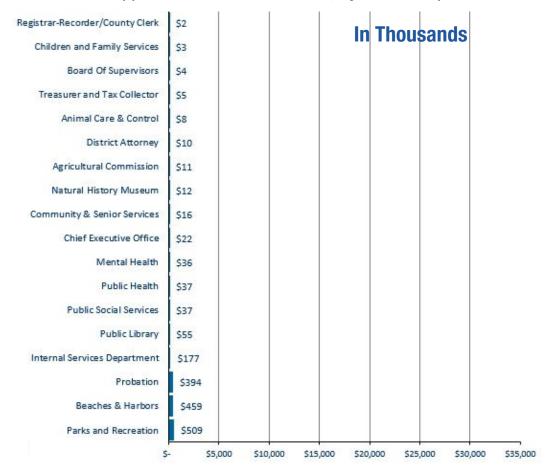
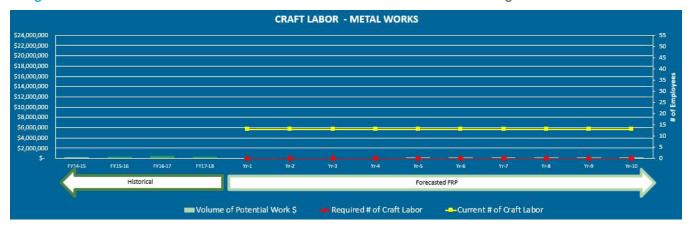


Figure 3.36: Metal Works Craft FTE to meet ISD Facilities Craft Program Demand



LOS ANGELES COUNTY

Figure 3.37: Potential Opportunities for Elevators by District

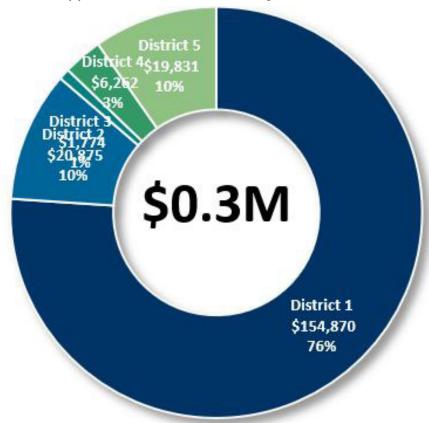


Figure 3.38: Potential Opportunities for Elevators, by Tenant Department

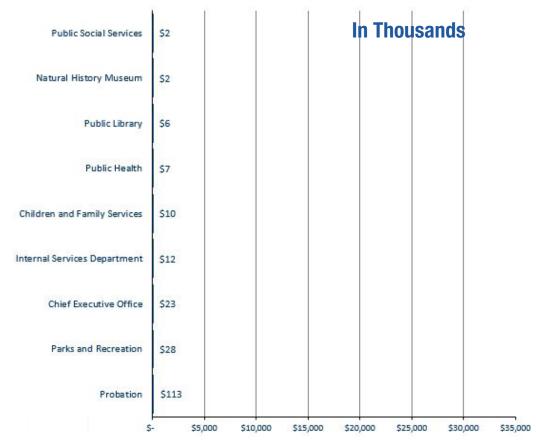
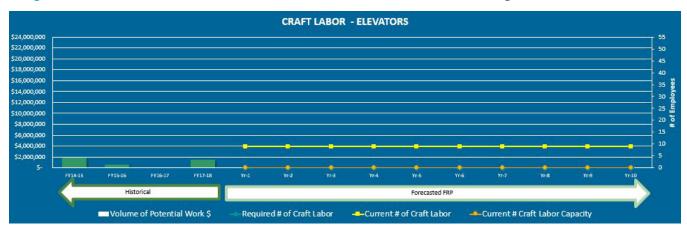




Figure 3.39: Metal Works Craft FTE to meet ISD Facilities Craft Program Demand



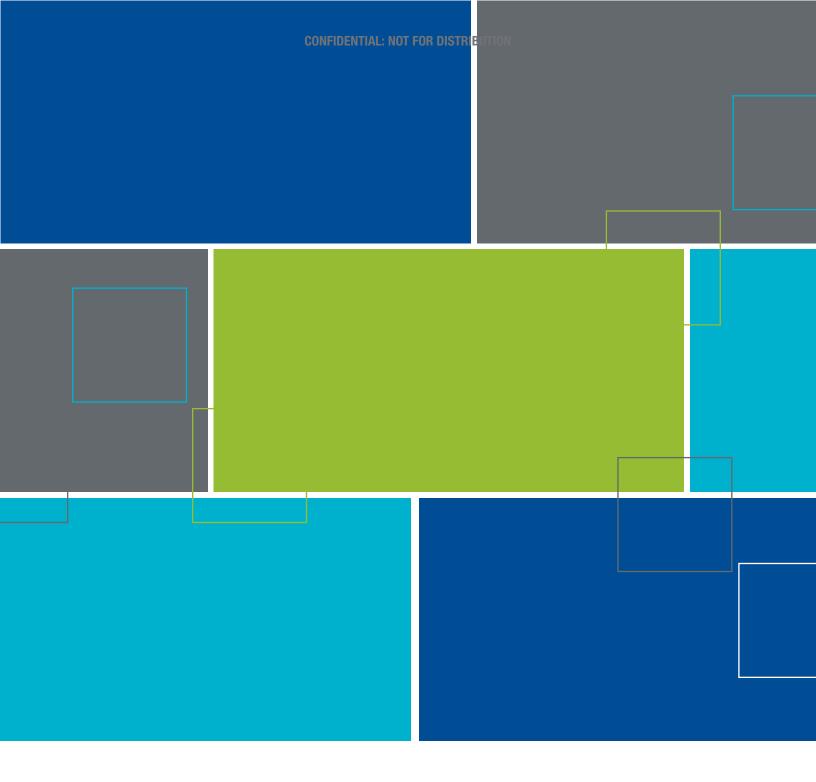






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