



## AGENDA

Garden Grove City  
Council

Tuesday, July 10, 2018

6:30 PM

Community Meeting  
Center, 11300 Stanford  
Avenue, Garden Grove,  
CA 92840

**Steven R. Jones**

Mayor

**Kris Beard**

Mayor Pro Tem - District 1

**John R. O'Neill**

Council Member - District 2

**Thu-Ha Nguyen**

Council Member - District 3

**Patrick Phat Bui**

Council Member - District 4

**Stephanie Klopfenstein**

Council Member - District 5

**Kim B. Nguyen**

Council Member - District 6

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**Meeting Assistance:** Any person requiring auxiliary aids and services, due to a disability, to address the City Council, should contact the City Clerk's Office 72 hours prior to the meeting to arrange for accommodations. Phone: (714) 741-5040.

**Agenda Item Descriptions:** Are intended to give a brief, general description of the item. The City Council may take legislative action deemed appropriate with respect to the item and is not limited to the recommended action indicated in staff reports or the agenda.

**Documents/Writings:** Any revised or additional documents/writings related to an item on the agenda distributed to all or a majority of the Council Members within 72 hours of a meeting, are made available for public inspection at the same time (1) in the City Clerk's Office at 11222 Acacia Parkway, Garden Grove, CA 92840, during normal business hours; (2) on the City's website as an attachment to the City Council meeting agenda; and (3) at the Council Chamber at the time of the meeting.

**Public Comments:** Members of the public desiring to address the City Council are requested to complete a **pink speaker card** indicating their name and address, and identifying the subject matter they wish to address. This card should be given to the City Clerk prior to the start of the meeting. General comments are made during "Oral Communications" and should be limited to matters under consideration and/or what the City Council has jurisdiction over. Persons wishing to address the City Council regarding a Public Hearing matter will be called to the podium at the time the matter is being considered.

**Manner of Addressing the City Council:** After being called by the Mayor, you may approach the podium, it is requested that you state your name for the record, and proceed to address the City Council. All remarks and questions should be addressed to the City Council as a whole and not to individual Council Members or staff members. Any person making impertinent, slanderous, or profane remarks or who becomes boisterous while addressing the City Council shall be called to order by the Mayor. If such conduct continues, the Mayor may order the person barred from addressing the City Council any further during that meeting.

**Time Limitation:** Speakers must limit remarks for a total of (5) five minutes. When any group of persons wishes to address the City Council on the same subject matter, the Mayor may request a

spokesperson be chosen to represent the group, so as to avoid unnecessary repetition. At the City Council's discretion, a limit on the total amount of time for public comments during Oral Communications and/or a further limit on the time allotted to each speaker during Oral Communications may be set.

**PLEASE SILENCE YOUR CELL PHONES DURING THE MEETING.**

## AGENDA

ROLL CALL: COUNCIL MEMBER O'NEILL, COUNCIL MEMBER T. NGUYEN, COUNCIL MEMBER BUI, COUNCIL MEMBER KLOPFENSTEIN, COUNCIL MEMBER K. NGUYEN, MAYOR PRO TEM BEARD, MAYOR JONES

### INVOCATION

PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA

#### 1. PRESENTATIONS

- 1.a. Community Spotlight in recognition of Scott Weimer and Gayle Knight for being named the 2018 Garden Grove Chamber of Commerce Man and Woman of the Year.
- 1.b. City of Garden Grove long-range forecast and financial sustainability presentation by Management Partners.

#### 2. ORAL COMMUNICATIONS (to be held simultaneously with other legislative bodies)

#### 3. WRITTEN COMMUNICATIONS

- 3.a. Consideration of a written request to waive fees for the use of Atlantis Play Center for the OC Autism Christmas event on Saturday, December 15, 2018. (Cost: \$920) (*Action Item*)

### RECESS

### CONDUCT OTHER LEGISLATIVE BODIES' BUSINESS

### RECONVENE

#### 4. CONSENT ITEMS

*(Consent Items will be acted on simultaneously with one motion unless separate discussion and/or action is requested by a Council Member.)*

- 4.a. Adoption of a Proclamation declaring July as Parks Make Life Better Month. (*Action Item*)
- 4.b. Approval of a Letter Agreement with the Garden Grove Unified School District for use of Southern California Edison and City poles for the installation of banners. (*Action Item*)

- 4.c. Authorize issuance of a purchase order for one (1) new Police Department sedan. (Cost: \$24,313.92) (*Action Item*)
- 4.d. Approval of an agreement with Westnet, Inc., for the installation of fire station alerting systems for Fire Station No. 6 located at 12232 West Street, Garden Grove. (Cost: \$72,553.77) (*Action Item*)
- 4.e. Authorize issuance of purchase orders to Villa Ford, AutoNation Ford Tustin, and Ford of Orange for auto parts to repair City vehicles. (Cost: \$150,000 per year.) (*Action Item*)
- 4.f. Authorize issuance of purchase orders to Simpson Chevrolet, Selman Chevrolet and DeLillo Chevrolet for auto parts to repair City vehicles. (Cost: \$150,000 per year.) (*Action Item*)
- 4.g. Receive and file minutes from the meeting held on June 26, 2018. (*Action Item*)
- 4.h. Approval of warrants. (*Action Item*)

## 5. PUBLIC HEARINGS

(*Motion to approve will include adoption of each Resolution unless otherwise stated.*)

- 5.a. Adoption of a Resolution ordering the vacation of general easements for public utility purposes for a portion of the property located at 11235 Bowles Avenue, Garden Grove. (*Action Item*)
- 5.b. Consideration of an appeal of a Garden Grove Planning Commission action for a denial of Conditional Use Permit No. CUP-120-2018 for the Pho Hoa An Restaurant located at 14291 Euclid Street #D101, Garden Grove. (*Action Item*)

## 6. ITEMS FOR CONSIDERATION

- 6.a. Approval of an Agreement with Siemens Industries, Inc. for implementing an energy efficiency modernization project; and approval of an Interfund Loan and Repayment Agreement for the upgrade and purchase of energy efficiency equipment for the operation of the City's heating, ventilation, air conditioning systems and lighting. (Cost: \$2,850,550) (*Action Item*)
- 6.b. Report on staff review of the Orange County Fire Authority (OCFA) fire service proposal. (*Action Item*)

## 7. MATTERS FROM THE MAYOR, CITY COUNCIL MEMBERS, AND CITY MANAGER

## 8. ADJOURNMENT

The next Regular Meeting of the City Council will be held on Tuesday, July 24, 2018, at 5:30 p.m. in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: From:

Dept.: Dept.: City Manager

Subject: City of Garden Grove long- Date:  
range forecast and financial  
sustainability presentation by  
Management Partners.

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**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
PowerPoint Presentation	7/11/2018	Backup Material	Financial_Sustainability_Project.pdf



# City of Garden Grove Financial Sustainability Project

## Presentation to City Council

Jay Trevino, Project Manager  
Robert Leland, Special Advisor  
Don Rhoads, Special Advisor  
Management Partners

July 10, 2018

Management  
Partners



# Management Partners Serves Only Local Government Clients Nationwide, Including California's Largest Cities

**20+**  
years

of service exclusively to local governments

**Over  
1,500**  
projects

successfully completed in 42 states

**80+**  
associates

including generalists and subject-matter experts

**3**  
national  
offices

in Costa Mesa and San Jose, CA  
and Cincinnati, OH

Served  
**80%**

of California cities with more than 100,000 people

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## Services

- Operations Improvement
- Strategic Planning
- Service Sharing
- Financial Planning/Budgeting
- Organization Analysis
- Organization Development
- Performance Management
- Process Improvement
- Facilitation and Training
- Executive Recruitment
- Executive Coaching

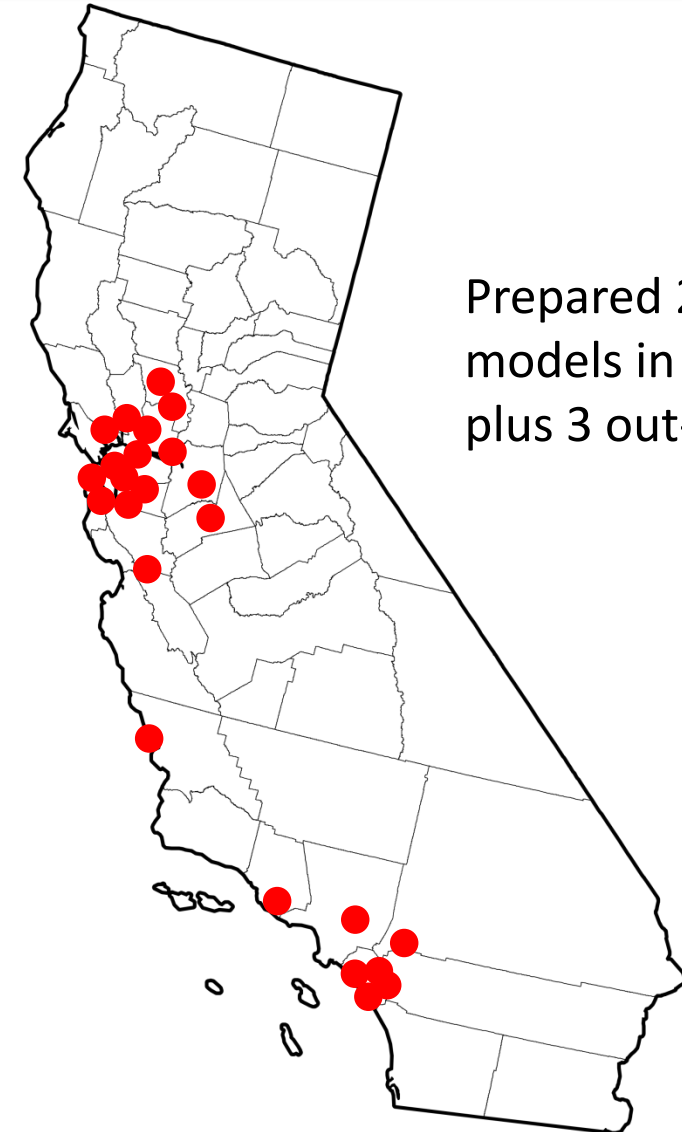
Experienced helping many California cities facing fiscal challenges including: Fremont, Hayward, Long Beach, Oxnard, Sacramento, San Jose, Stockton, San Bernardino, Santa Ana and Tracy

# Budget Goals & Purpose of Presentation

- Maintain core city services Garden Grove residents expect and deserve for their quality of life, including:
  - Maintaining 9-1-1 emergency response times
  - Police and fire protection by maintaining staffing levels
  - Protecting local infrastructure, including streets and drinking water supplies
- Properly prepare for the City's long-term financial viability, including exploring options for locally-controlled funding
- Provide careful and transparent models for the City Council's long-term budgeting

# Over Two Dozen Financial Forecasts Prepared in California During Past Four Years

- Management Partners provides outside third party perspective; a “second opinion”
- Extensive experience with budget modeling and forecasting
  - 27 local agencies, 2 bankruptcies
- Prepare 20-year budget forecast model to serve as basis for future budget strategies
  - Focus on General Purpose Fund
- Capability to run alternative forecast assumptions, cost out labor proposals
- City owns the model



Prepared 24 budget models in California, plus 3 out-of-state

# Last Eight Budgets Have Projected a Structural Shortfall

- Deficit avoided to date due to:
  - High employee vacancy rates
  - \$14.5M shifted from ISFs from FY09-10 through FY16-17
  - Faster recovery from recession than expected, stronger hotel tax
- City is rightfully concerned about sustainability of lost funding due to state takeaways, unmet infrastructure needs, lower revenue growth rates, and higher PERS costs

PROJECTED SOURCES & USES OF  
BASIC FUNDS  
FISCAL YEAR 2017-18 THROUGH 2021-22  
(In Thousands of Dollars)

	2017-18 (Budget)	2018-19 (Budget)	2019-20 (Projected)	2020-21 (Projected)	2021-22 (Projected)
<u>Sources</u>					
Reserve	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Transfers/Carryovers	5,484 ①	3,094	1,037	558	584
Beginning Balance	12,229	12,171	12,969	11,969	10,969
Estimated Revenue	<u>118,591</u>	<u>122,198</u>	<u>124,694</u>	<u>127,555</u>	<u>127,266</u>
Total Sources of Funds	136,304	137,463	138,700	140,082	138,819
<u>Uses</u>					
Operations	118,054 ②	122,104	128,576	132,047	134,688
Capital Improvements	5,531	5,100	5,654 ③	5,939 ④	5,480
Contingency Reserve	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Total Uses of Funds	123,585	127,204	134,230	137,986	140,168
EST. BALANCE (Deficit)	12,719	10,259	4,470	2,096	(1,349)
Less: Restricted Balance	(12,285)	(12,969)	(11,969)	(10,969)	(9,969)
Less: Assigned Fund Bal.					
(Excess Pers. Tax Rev.)	(385)	(504)	0	0	0
Balancing Measures	0	3,300 ③	7,499 ③	8,873 ③	11,318 ③
NET BALANCE	<u>49</u>	<u>86</u>	<u>0</u>	<u>0</u>	<u>0</u>



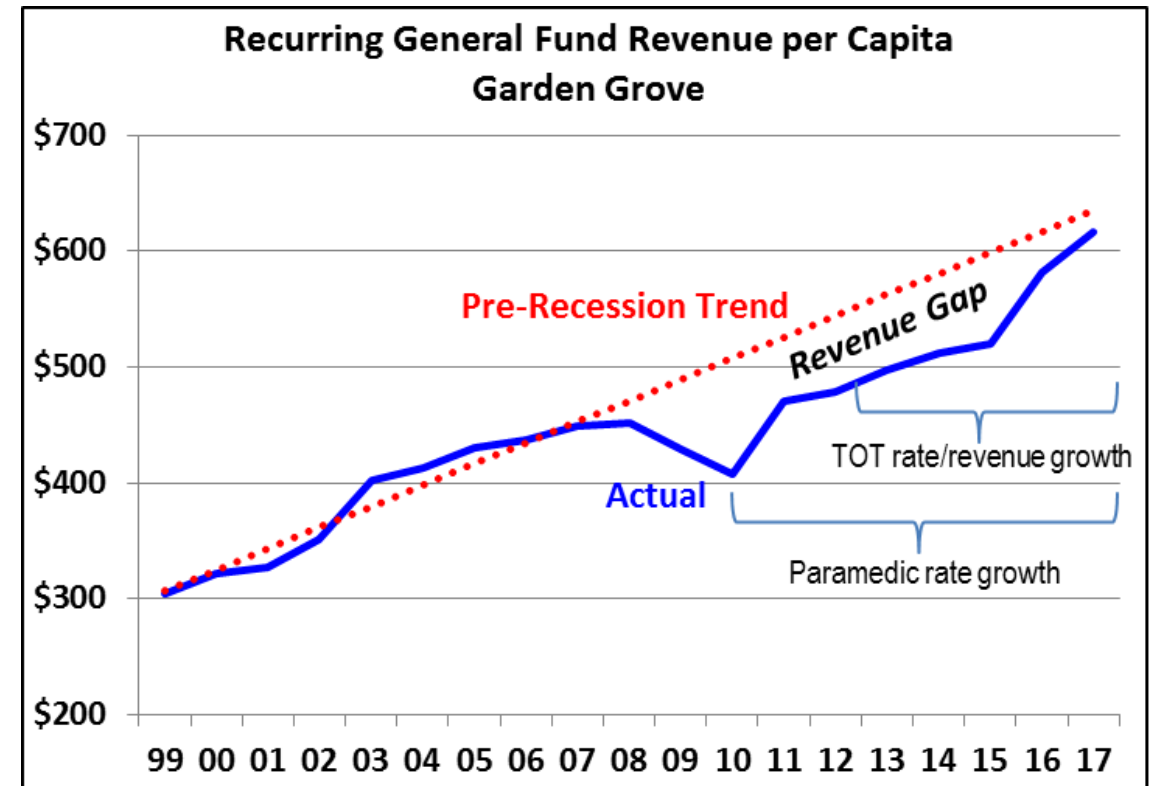
# Budget Challenges Typically Facing Cities

- Persistent revenue gap
- Future recessions
- Significant staffing reduction
- State's early prison release policies
- Labor market pressures
- Inadequate infrastructure maintenance
- Internal service needs
- Restore/maintain reserve levels
- Large pension cost increases

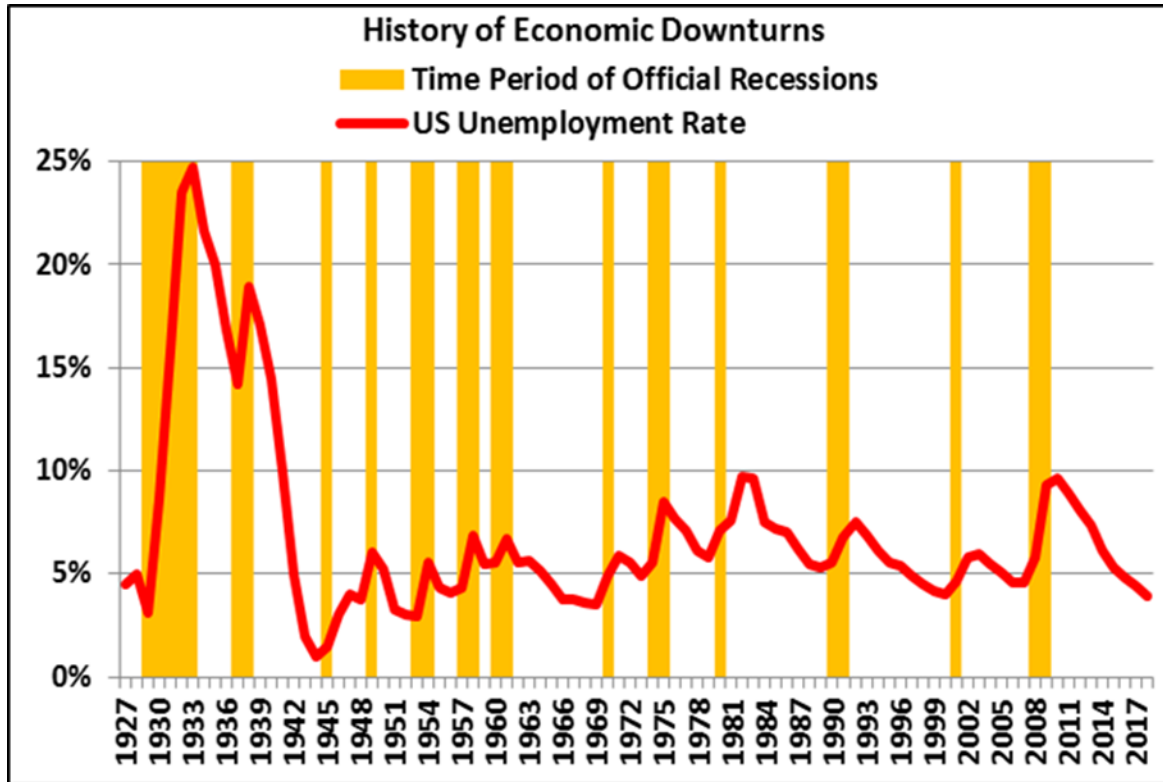


# Revenue Gap Closing

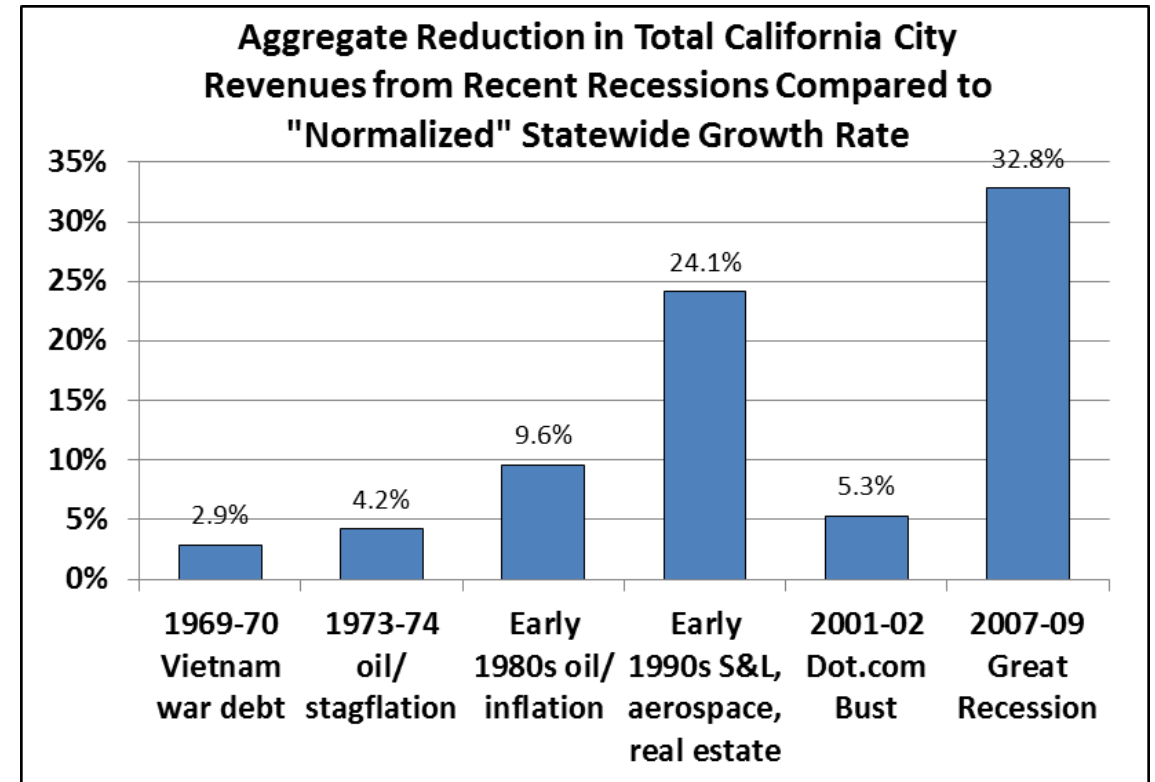
- In general, cities have not recovered from Great Recession revenue losses
- Large gap typically exists between past expectations and current reality
- Without cuts, spending was on track to continue on pre-recession trend line
  - Garden Grove is closing this revenue gap (but expenditures still growing faster than revenues)



# The Next Recession



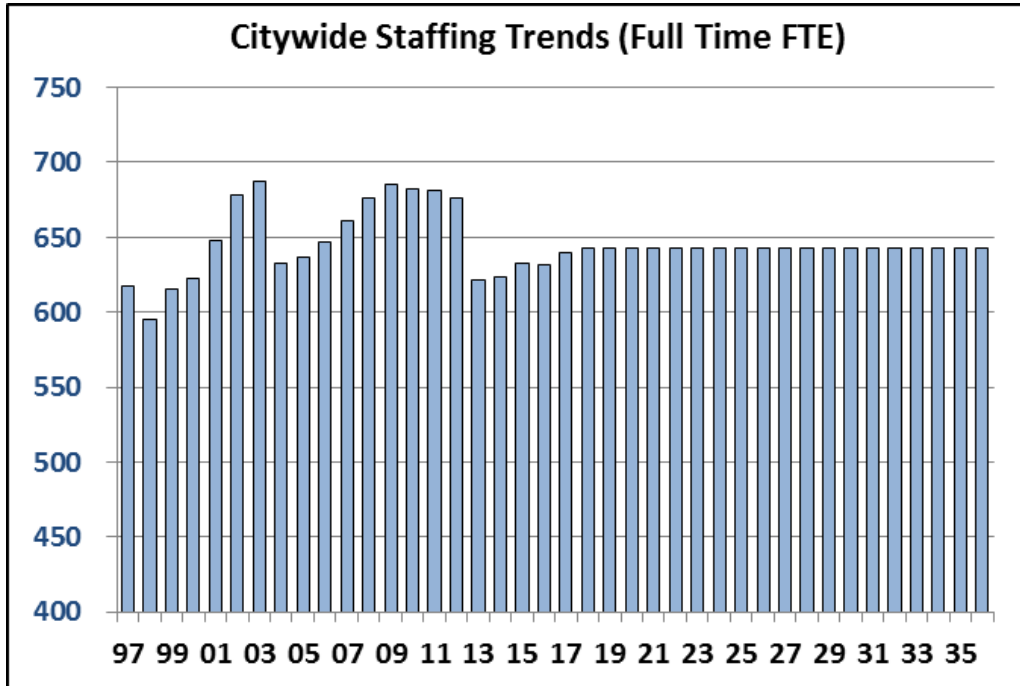
- Recessions have occurred an average of every 6.8 years since 1927; city budget impacts often lag official recessions



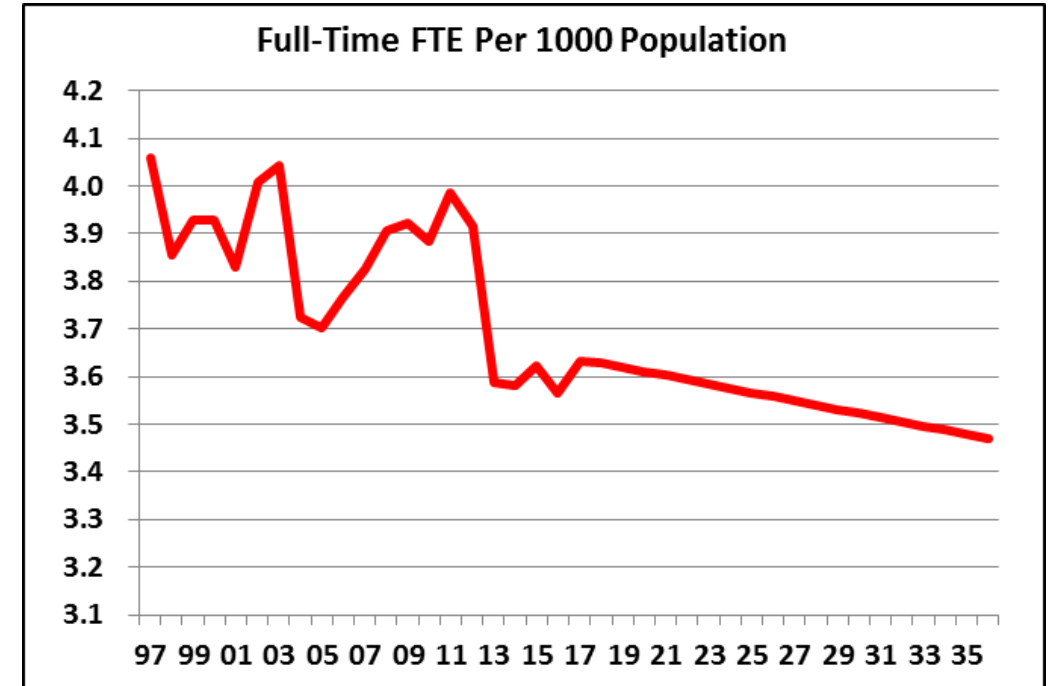
- Causes vary but key issues are timing and magnitude
- Model assumes modest recessions every seven years starting FY 2020-21



# Staffing Levels Lower Post-Recession



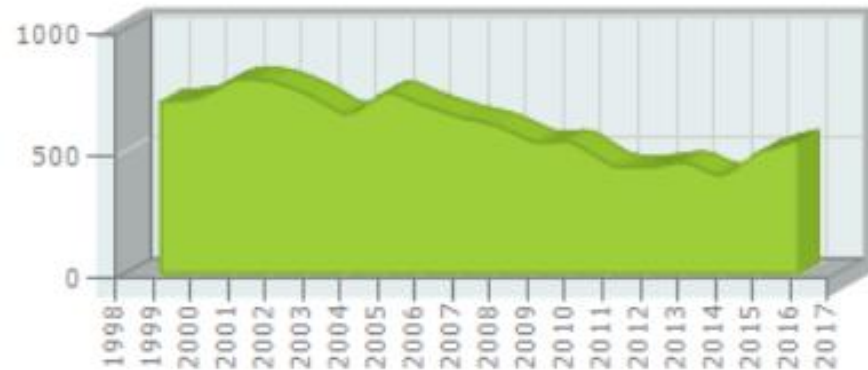
- 64 FTE cut from pre-recession peak (9% cut)
- 19 FTE added back since then (30% of loss restored)



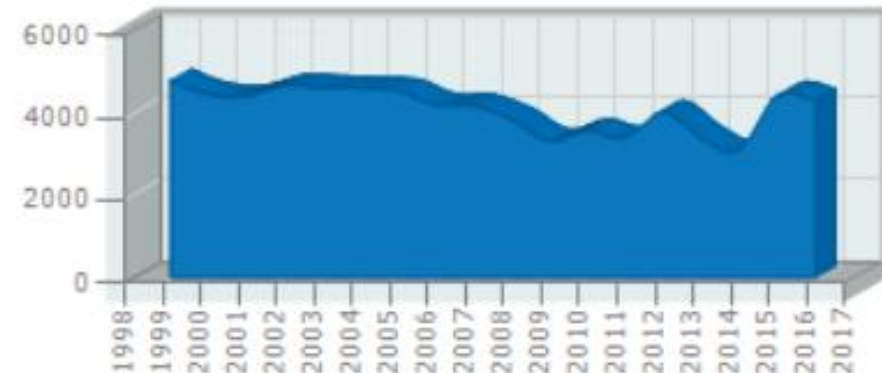
- Long-term decline in staffing per capita will continue if staffing is held constant
- Implications for handling population and workload growth

# Garden Grove Crime Statistics

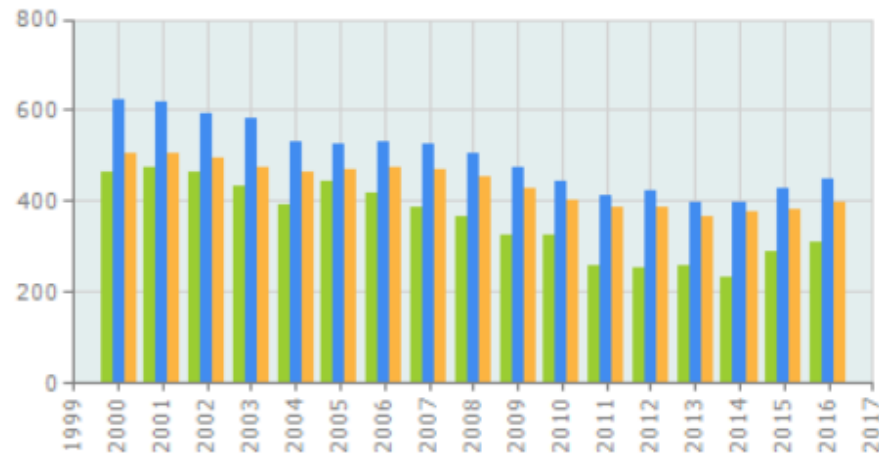
## Garden Grove Violent Crime



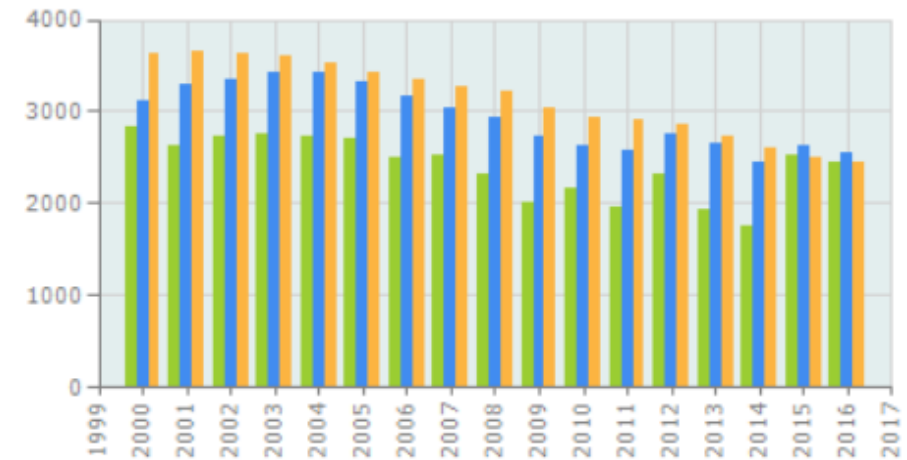
## Garden Grove Property Crime



## Garden Grove Violent Crime Index



## Garden Grove Property Crime Index



■ Garden Grove ■ California ■ National

Crime Index corresponds to incidents per 100,000 inhabitants

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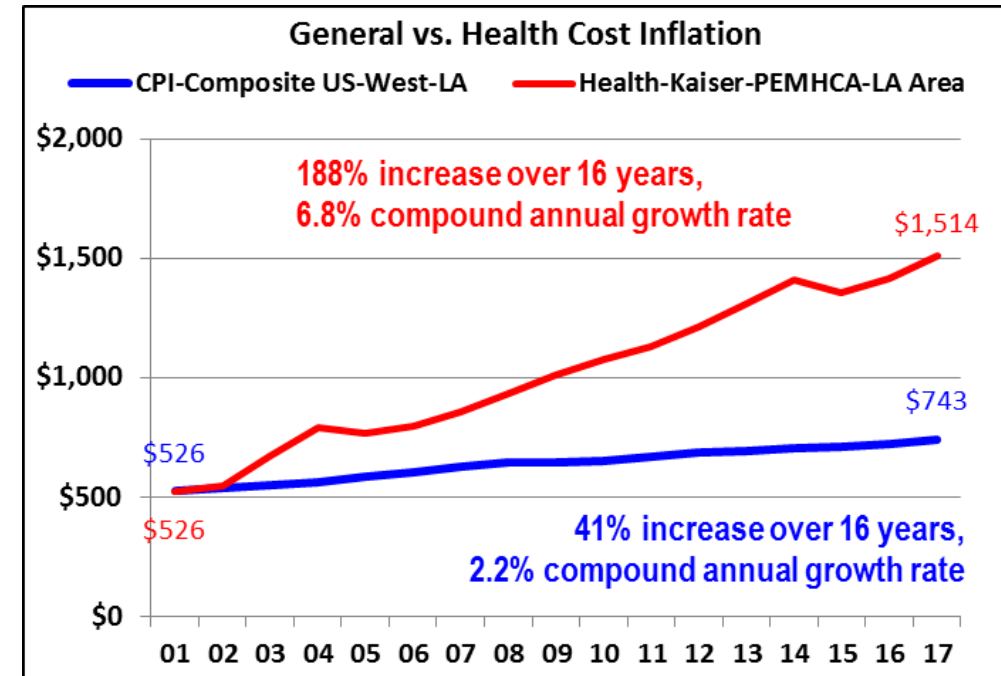
■ Garden Grove ■ California ■ National

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# Wage and Health Cost Pressures

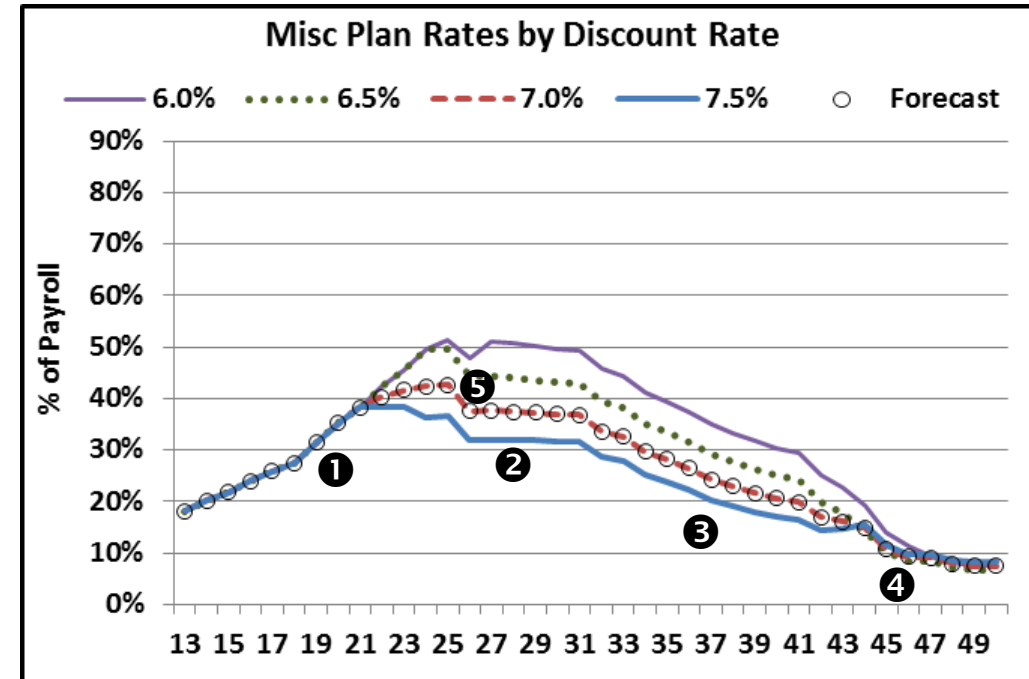
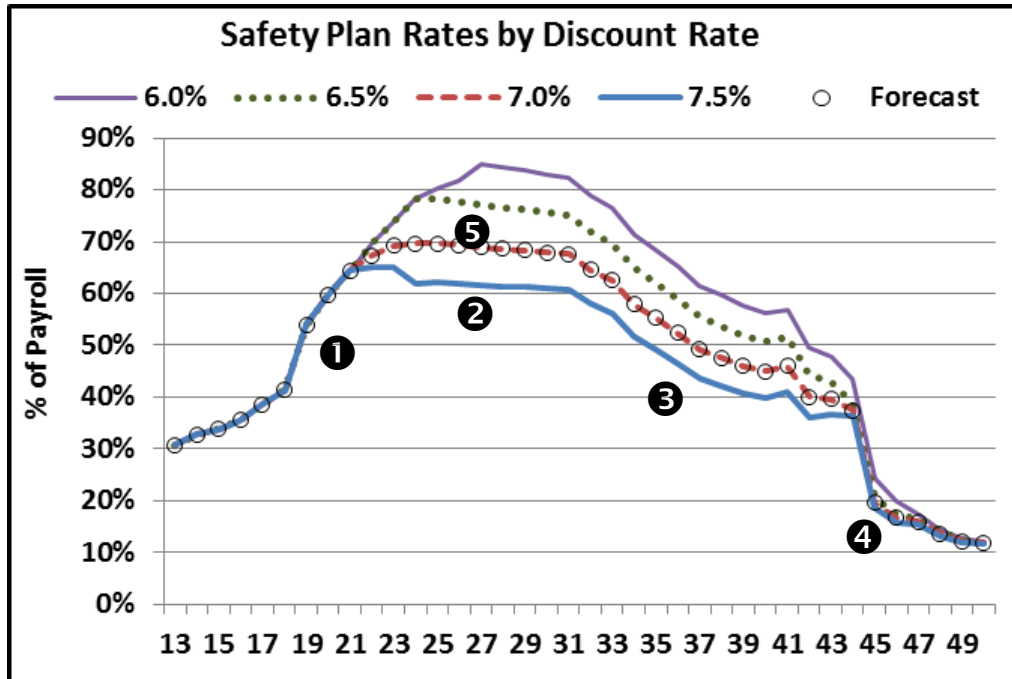


- Wage gap since end of Great Recession
- Lower PEPPRA benefits add pressure to boost wages to compensate (Public Employees' Pension Reform Act in 2013 lowered benefit levels for new hires)



- Health premium costs grew at 6.8% annual rate in region over last 16 years
- General inflation annual growth rate of 2.2% (composite rate)

# Garden Grove Pension Rate Life Cycle



1. Planned rate increases through 2023 due to phase-in of CalPERS rate structure changes
2. PEPRAs savings as new employees receive lower benefits (2013 to 2043)
3. Amortization of unfunded liability (most evident in 2030s and 2040s)
4. Normal costs are all that remain after unfunded liability is paid off
5. Discount rate recently reduced to 7%, total impact phased in over 7 years; forecast assumes discount rate stays at 7%; risk is that discount rate will drop further

# Model is Valuable Tool in Budget Process

- **Long-Range Forecast**

- Identifies demand on available resources over long-term (10-20 years), under given set of assumptions
  - Different assumptions = different forecast
  - Current draft model may change!
  - Facilitates development of budget parameters
  - Not a replacement for budget, which sets detailed spending priorities

- **Budget Model**

- Valuable tool for preparing the forecast – spreadsheet on steroids
  - Can produce many alternate forecasts and “what-if” scenarios
  - Helps cost out labor negotiating proposals
  - Use in public meetings to show impacts on long-term fiscal sustainability



# Key Budget Model Features-I

- **General**

- Account level detail of revenues, expenditures and fund balance from prior years
- Adjustable growth rates for each revenue and expenditure category
- Control panel allows easy revision of key variables
- Visual dashboard of over 40 charts change as variables are revised

- **Revenues**

- Detailed basis for property and sales taxes
- Adjust timing and magnitude of recessions
- Impact of adding new revenues, or expiration of current sources
- Adjust levels of projected new housing, hotels or other economic development

# Key Budget Model Features-II

- **Payroll Model**

- Details costs for all current employees/authorized positions
- Make changes by labor unit (COLAs, health, PERS cost-sharing)
- Includes merit increases, and projected savings based on historical turnover rates
- Can model impacts of cuts through attrition

- **Pension Model**

- Long-range projections of normal costs and each UAL amortization base for all plans and tiers, based on latest CalPERS valuation
- Shows impact of lower discount rates

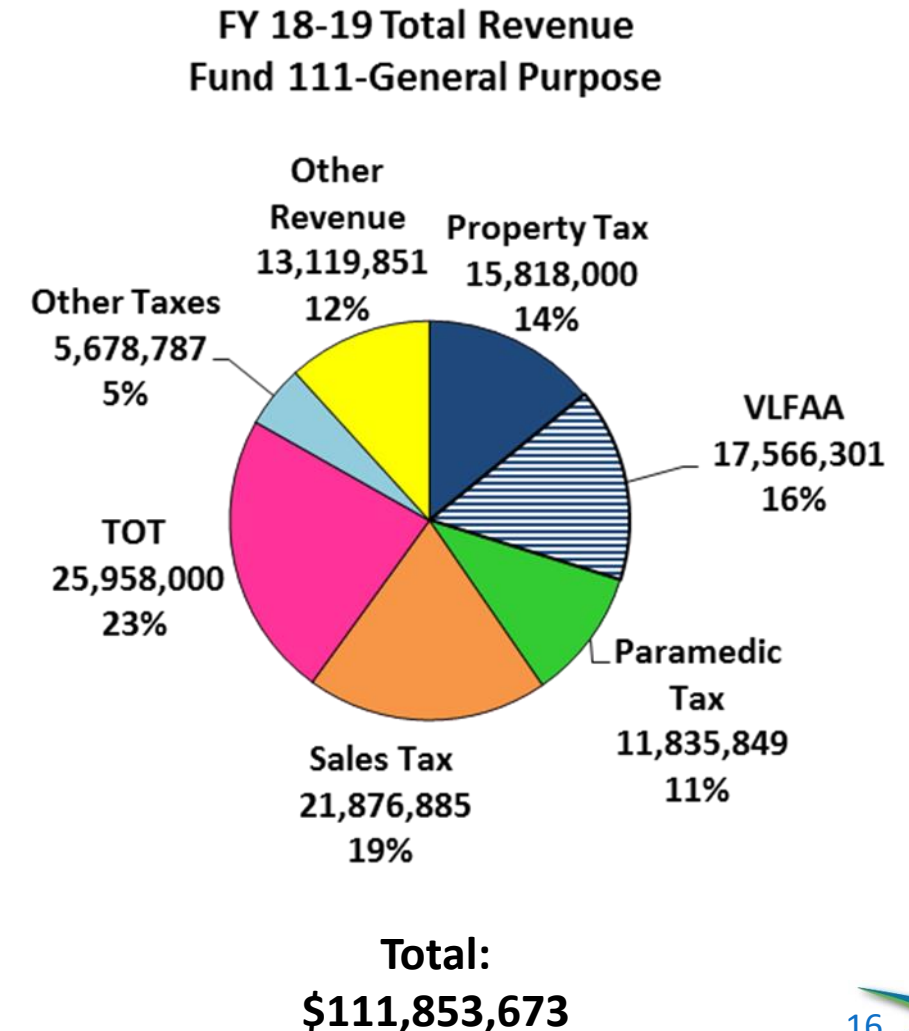
- **Service Levels**

- Add/reduce FTE or spending levels to show impact of unmet needs or budget cuts



# Key Revenue Assumptions

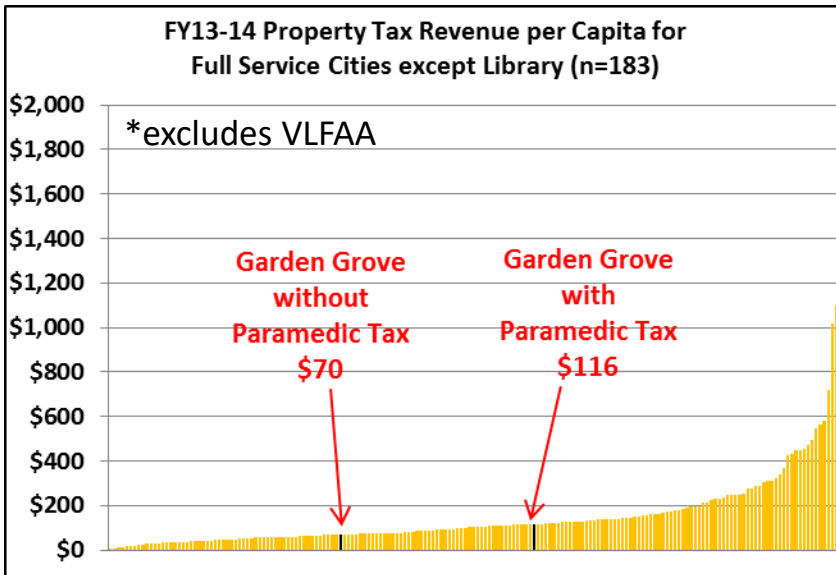
- **Recessions:** modest economic downturn every seven years starting FY 2020-21
- **Property Tax:** HdL data on transfers/Prop 8, city projection of new construction, 2% inflator; 3.1% compound annual growth rate (CAGR)
- **Paramedic:** Rate remains at \$0.08 per \$100 AV
- **Sales Tax:** HdL forecast by business sector through FY 2019-20; 1.7% CAGR
- **TOT:** 3.0% CAGR; includes site C and BN group projects (893 new hotel rooms by 2023)
- **All Other:** 1.1% CAGR



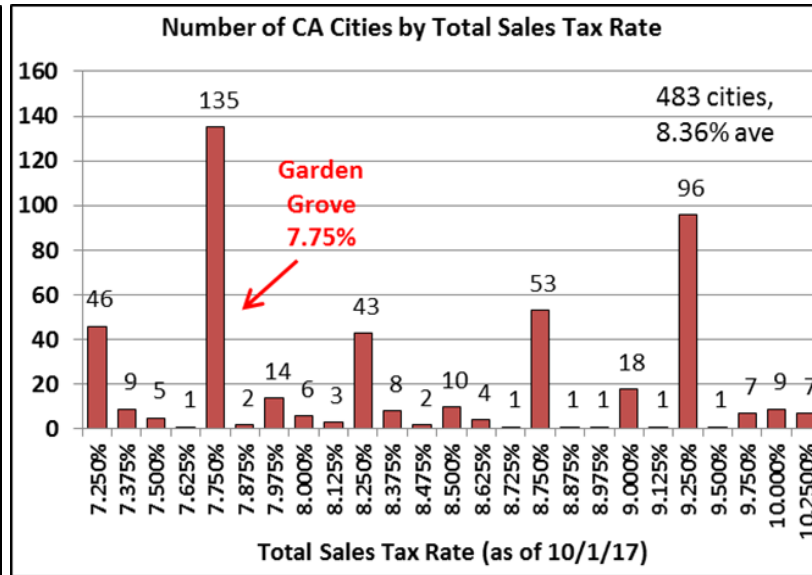


# City Tax Levels

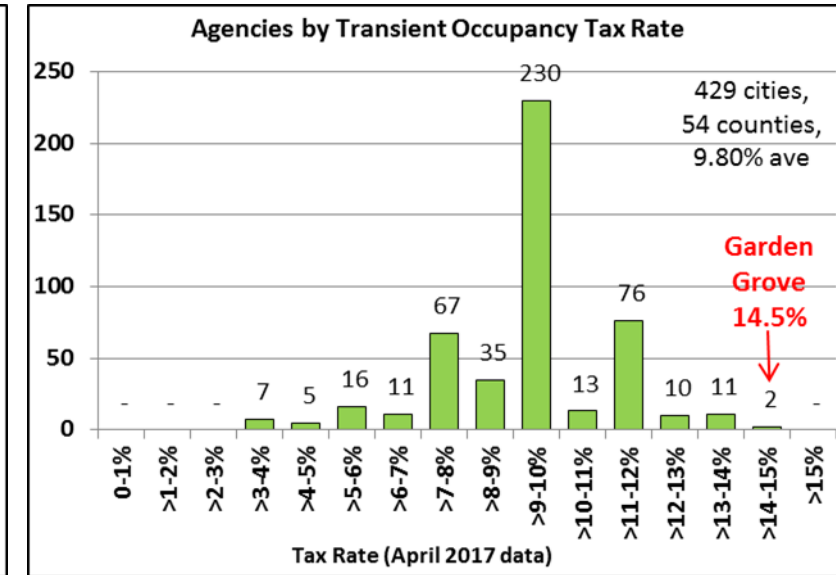
## PROPERTY TAX\*



## SALES TAX



## HOTEL TAX



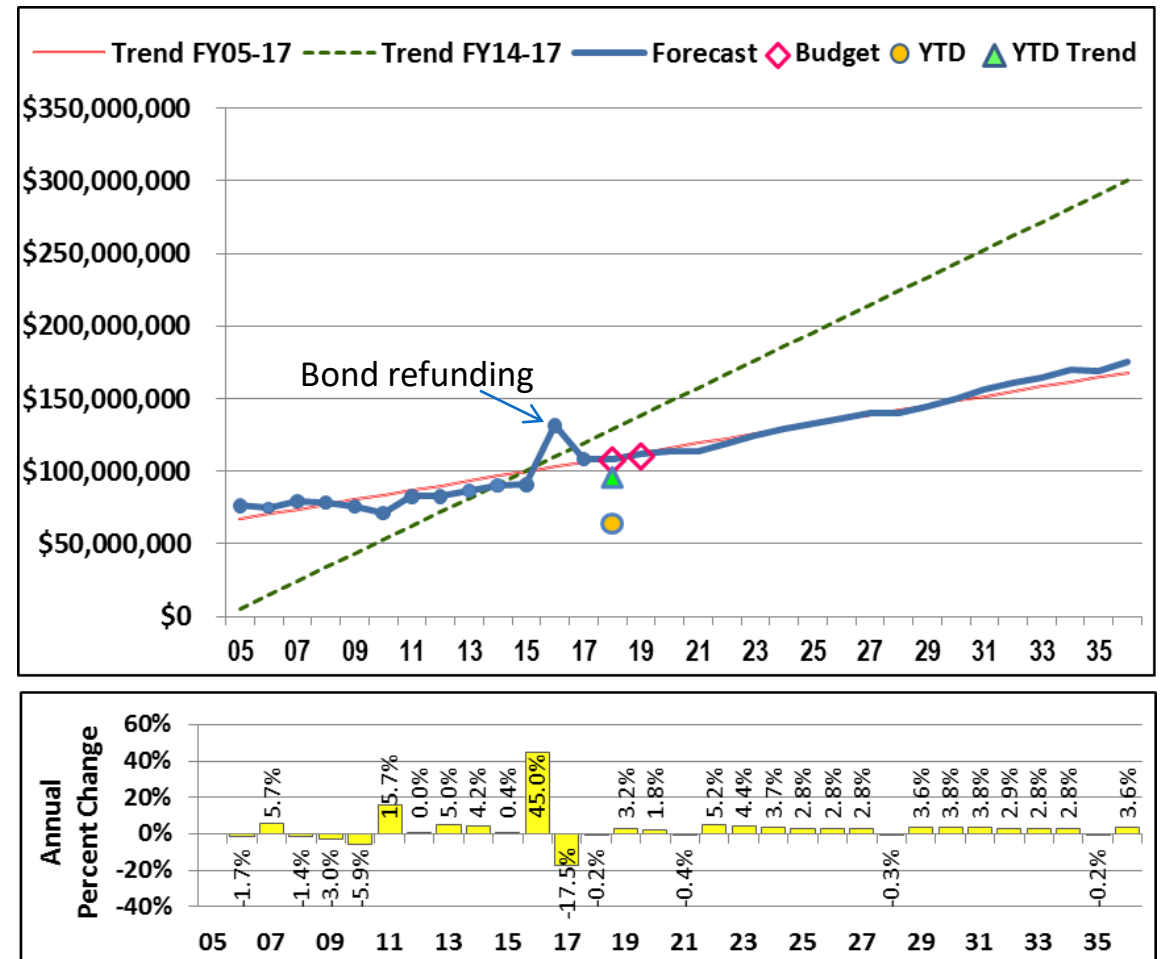
- Statewide tax rate is 1% but city shares vary based on services offered and other factors; City is low without Paramedic Tax

- Numerous voter-approved local sales taxes have created wide range of rates statewide; most of Orange County is at 7.75%

- Hotel tax typically paid by visitors; City's rate is high but market allows it

# Total Revenue Growth

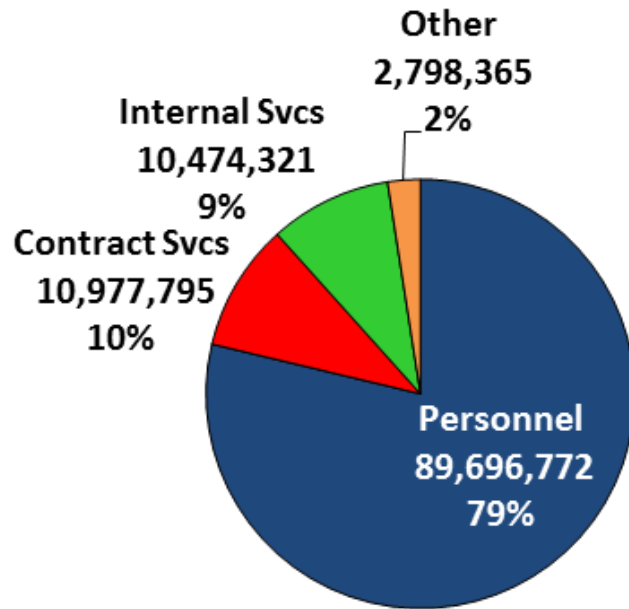
- Recent trend (green) reflects post-recession recovery period; this growth rate won't continue
- Long-term trend (red) includes past economic downturns
- Past: revenue growth was a compound annual growth rate (CAGR) of 2.97%, including higher TOT and paramedic rates enacted during that period
- Future: CAGR from FY 2016-17 to FY 2035-36 is 2.56%; includes new hotels; consistent with long-term trend
- Basic message: it is wishful thinking that revenue growth alone can solve the structural shortfall



# Expenditures by Type and Department

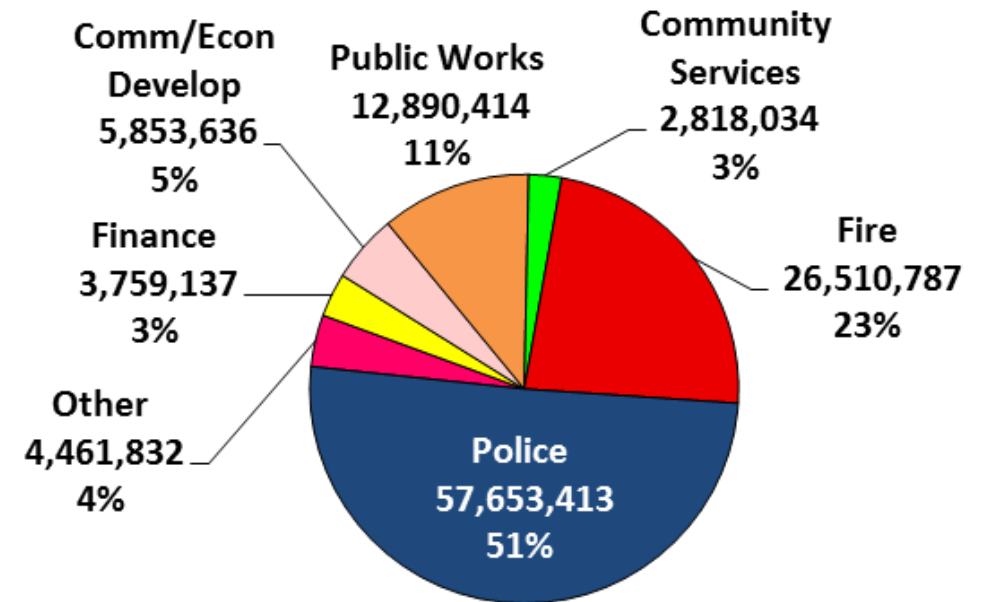
## (Before Proposed 5% Cuts)

FY 18-19 Total General Fund Expenditures  
\$116,732,643



- Over three-quarters of costs involve personnel (79%)

FY 18-19 Total General Fund Expenditures  
\$116,732,643

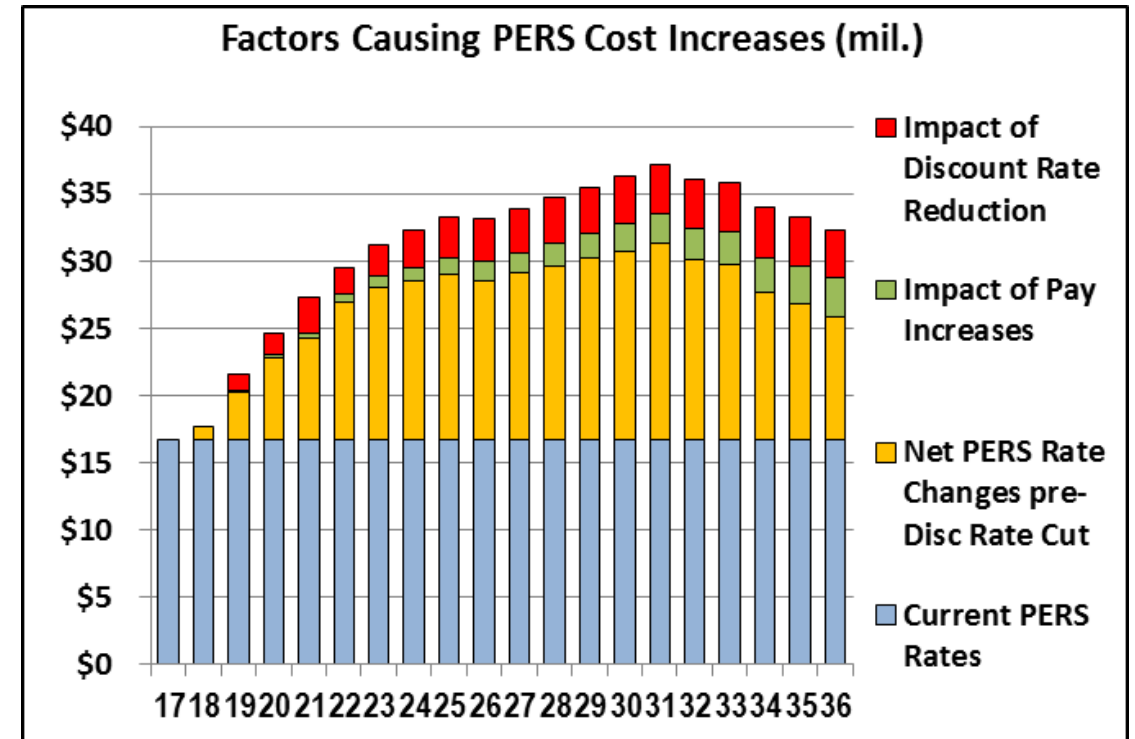
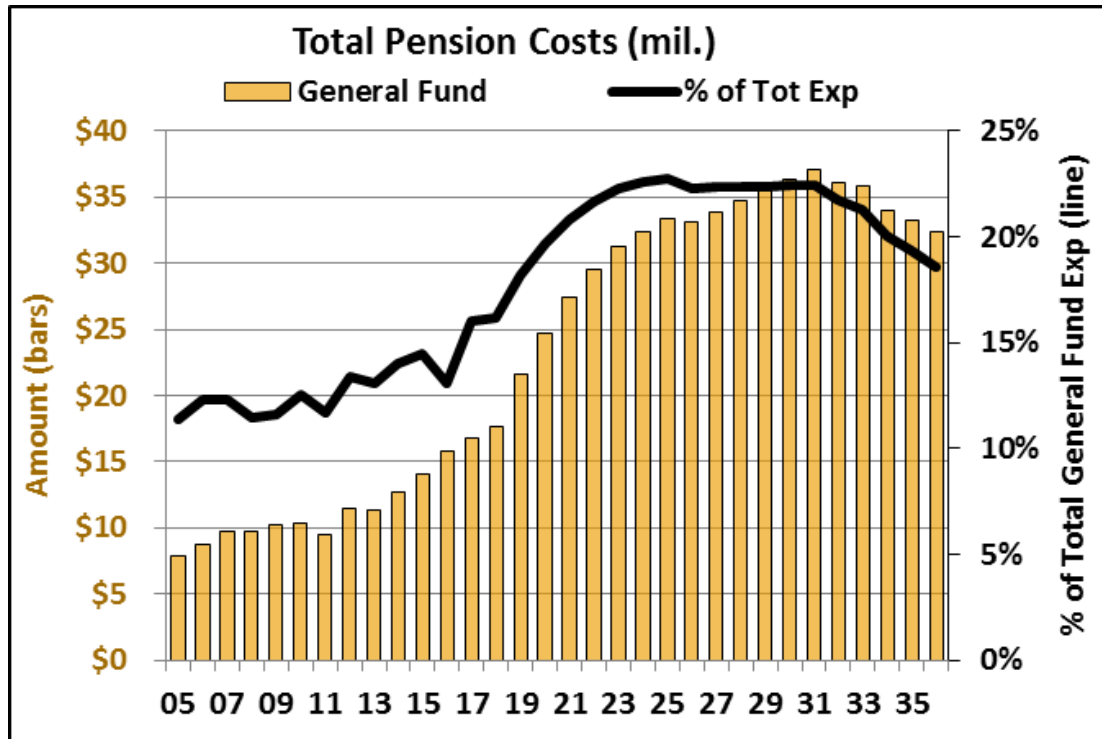


- Almost three-quarters of costs are for public safety (74%)

# Key Expenditure Assumptions

- **Staffing levels:** no change from current FTE
- **Wage Adjustments:** current MOUs through FY 2017-18, assumes 2% growth but this will depend on future MOUs; combination of merit increases and turnover savings adds net 0.25% per year (5% turnover rate is low); vacancy savings rate drops from current 7% to 3% over 3 years; forecast is lower than the CalPERS assumption of 3% growth in payroll
- **Pensions:** based on six-year CalPERS forecast (2016 valuation) with continued transition of employees from Classic to PEPRA benefit levels; assumes discount rate remains at 7%
- **Health:** assumes 3% growth but will depend on future MOUs
- **Other Services and Supplies:** averages 2% annual growth
- **5% Cut:** assumes this is one-time in FY2018-19
- **Debt Service:** per debt schedules of current obligations
- **Capital:** pays for Community Services and Facility Maintenance Plan from CIP; assumes street costs covered by Gas Tax under SB 1 and Measure M
- **Subsidy of Other Funds:** as required to maintain zero balances

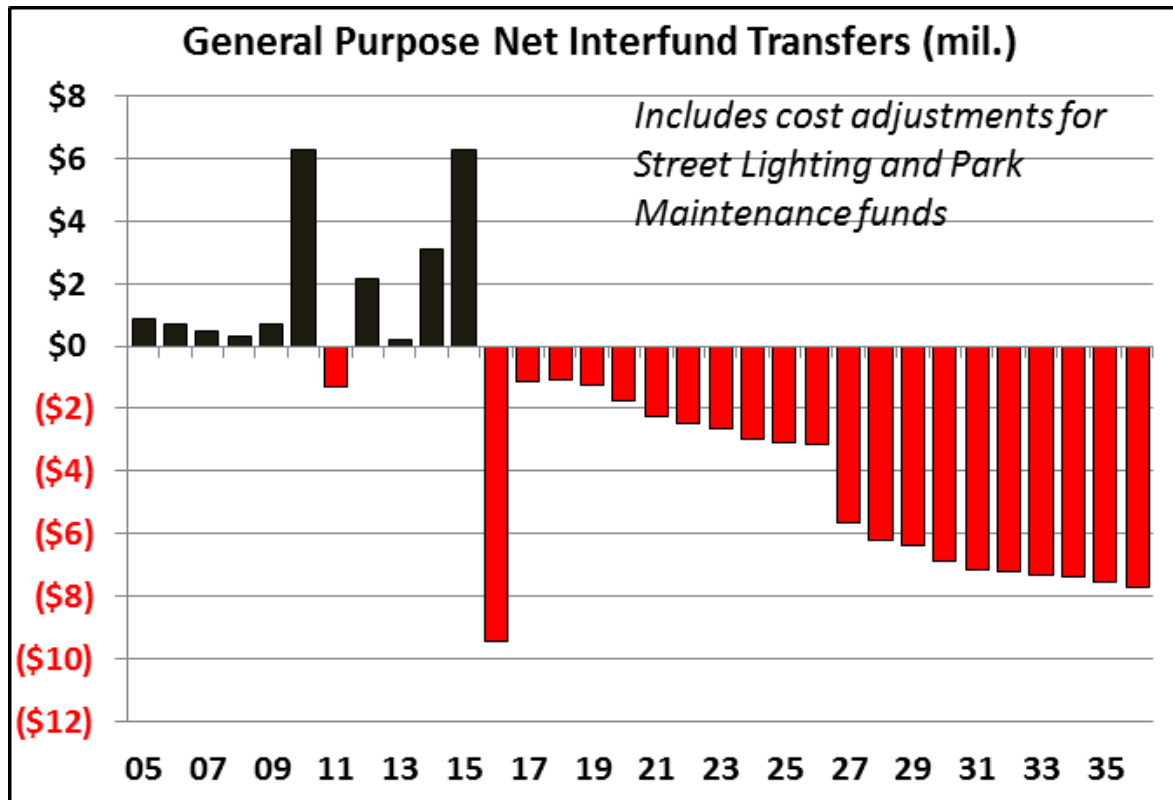
# Evolution of Pension Costs



- Costs double in 10 years; pensions peak at 23% of GF expense; costs continue to rise until FY 2030-31; assumes discount rate remains at 7%

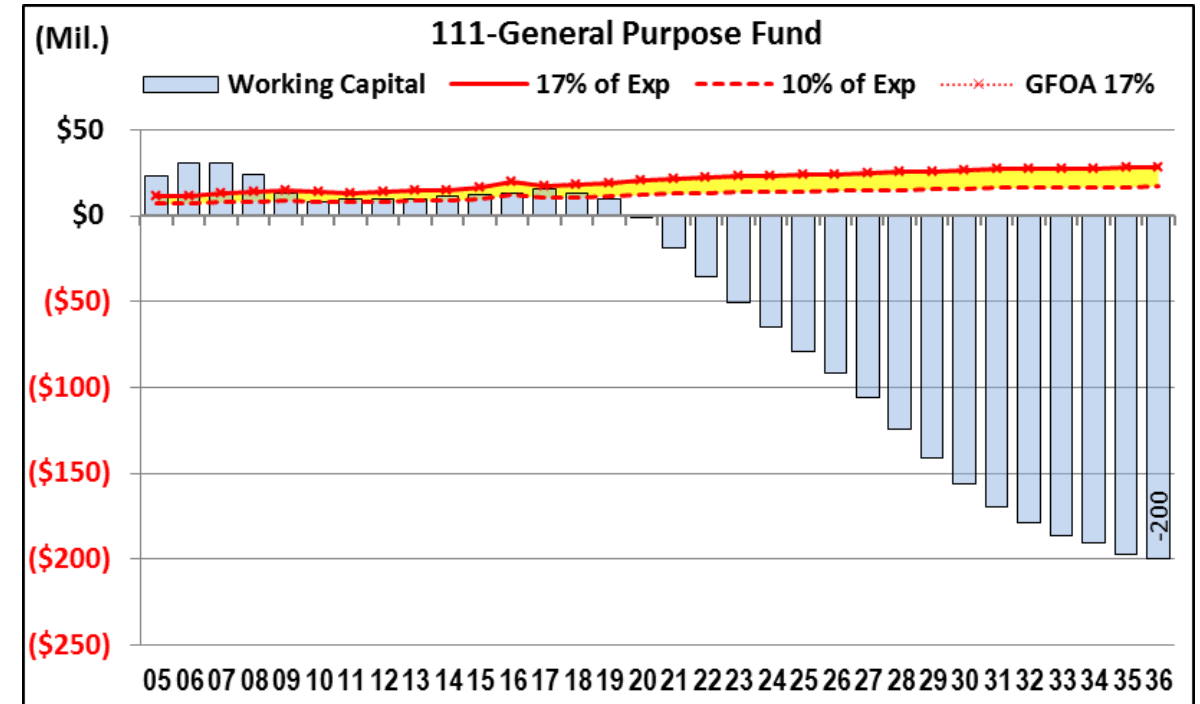
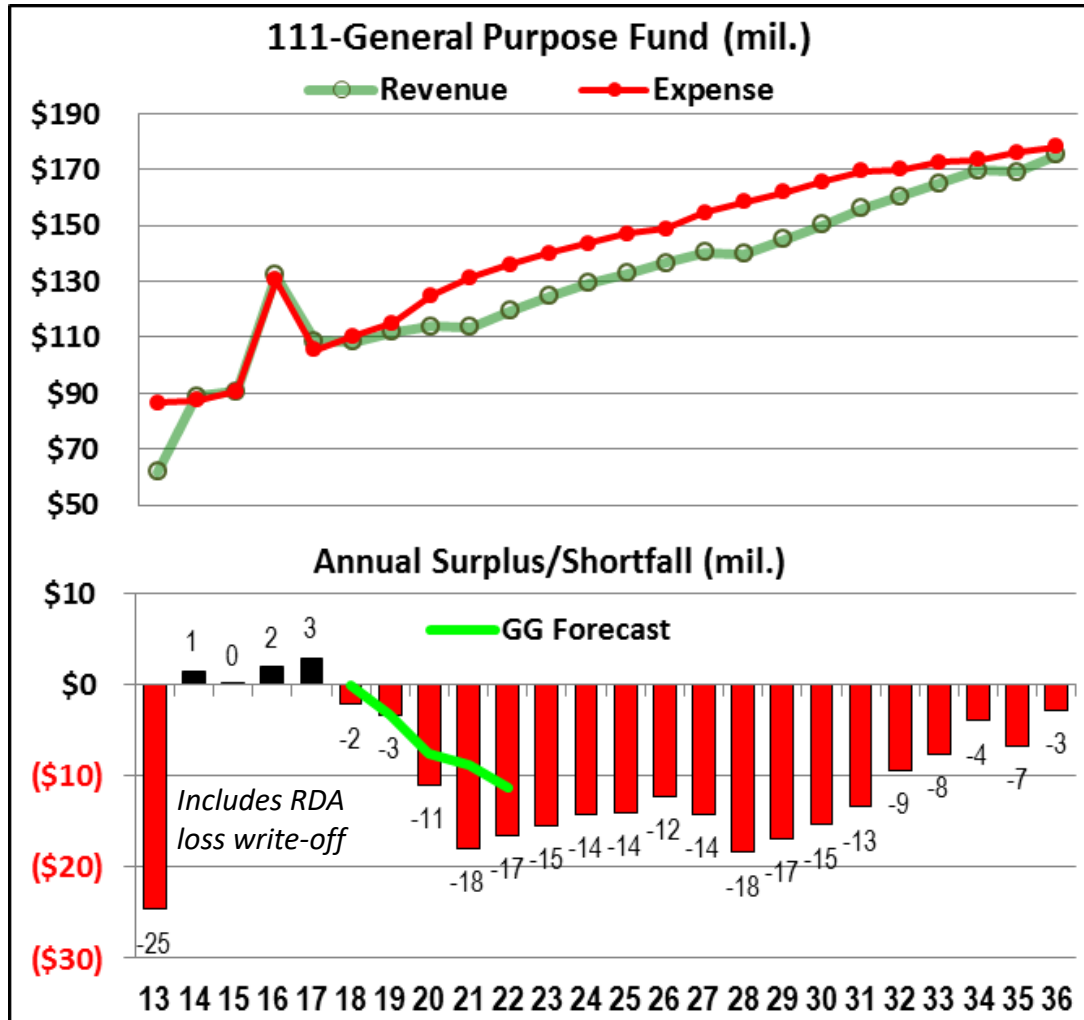
- Shows portion of increase attributable to planned increases, COLAs, and impact of discount rate reduction from 7.5% to 7%

# In Future, Transfers Out Will Exceed Transfers In



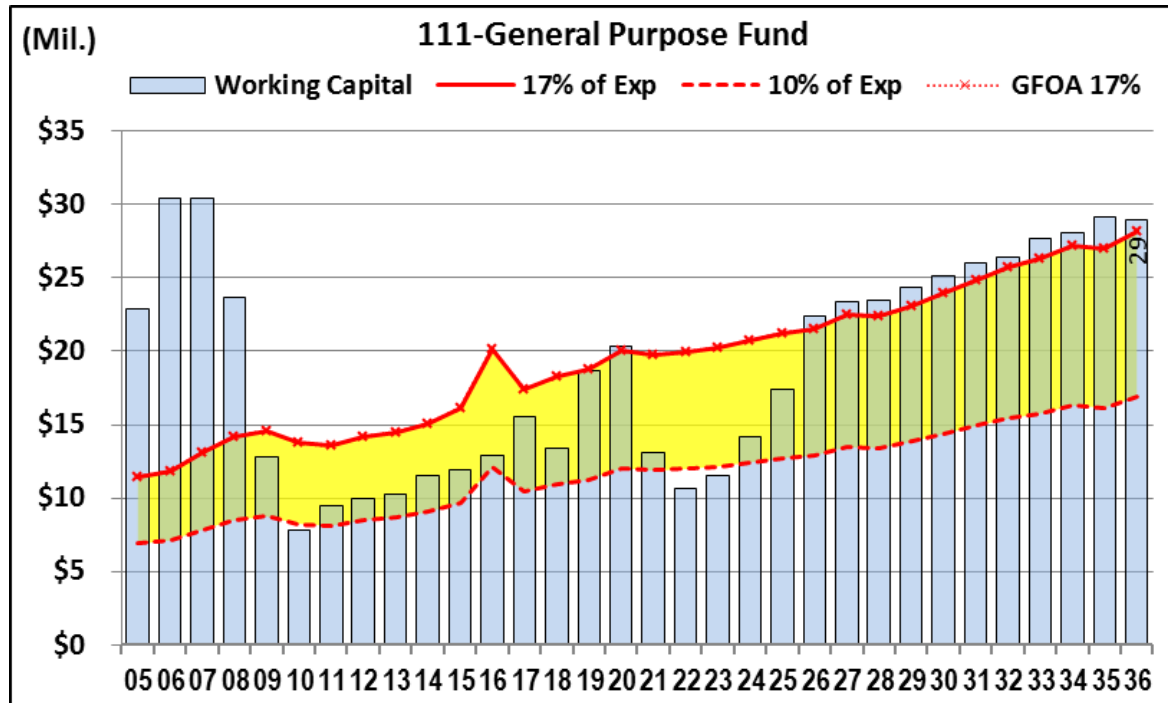
- **Past:** Net Gain, especially post-recession
  - Transfers In from Golf, RDA, Fleet, Risk Mgmt, Workers Comp, Employee Benefits, Partnerships, Development Agreement; these will not be continued
  - GF paid part of utility/other costs of Street Lighting and Park Maintenance (\$340K average over past 10 years)
  - \$178K average paid to “self-supporting revenue” fund (20% of costs)
  - One-time \$8M to Public Safety fund (bond refinancing savings)
- **Future:** Net Draw on General Fund
  - Street Lighting, Park Maintenance, Cable TV, Self-Supporting Revenue, Gas Tax (staff costs will exceed revenues), Risk Mgmt, Info Systems, Econ Development, TID Transit

# General Purpose Shortfall Before Budget Corrections

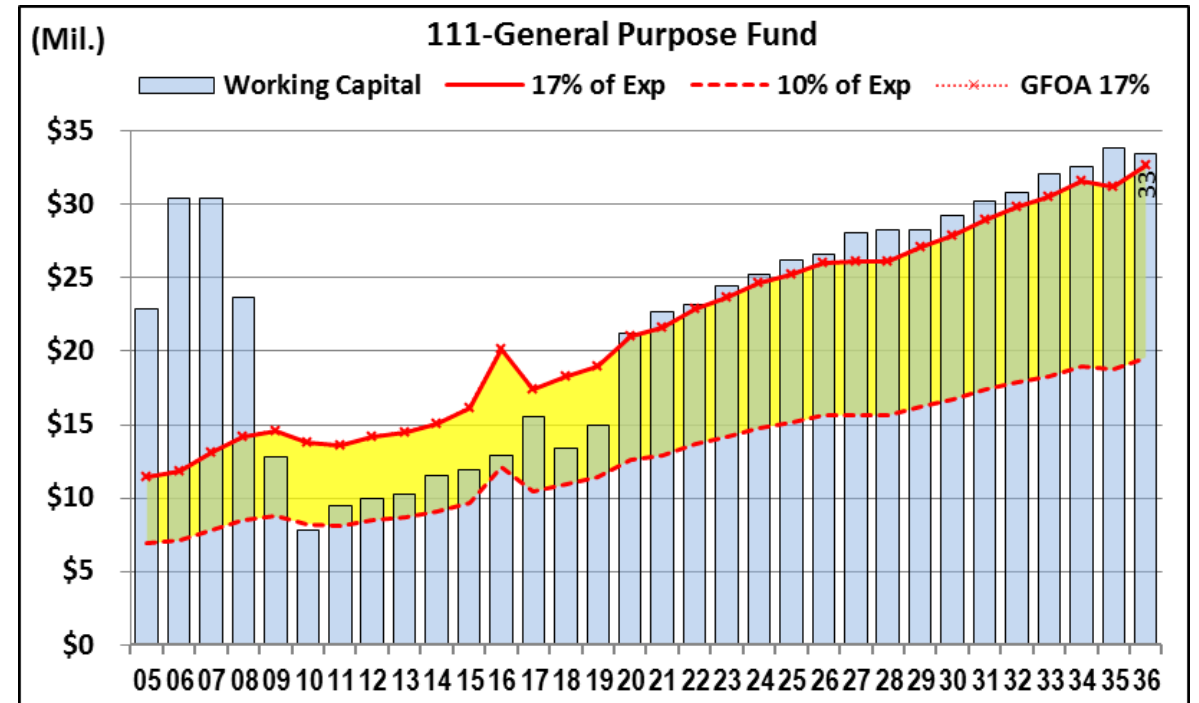


- Shortfall similar to City forecast through FY 2019-20, higher thereafter due to recessions, higher PERS cost, projected transfers; deficit reached in FY 2019-20 at projected use of reserves; rate of decline slows in 2030s

# Alternative Scenarios Can Achieve Sustainable Budget



- Cut 60% of positions vacated through attrition starting FY2019-20 for three years; \$5M added cuts starting FY 2020-21; no COLAs until FY 2022-23; partial service restoration starting FY 2029-30



- Voters approve a 1-cent local funding measure; no budget cuts required; added funding allows for service improvements and improved maintenance of infrastructure starting FY2019-20



# Status of Other Key Funds

Fund	Status	Trend Summary
060-Gas Tax 2106-07	Warning	Annual deficits will need \$400K/year by mid-2020s as staff cost exceeds Gas Tax
108-Land Sale Proceeds	Favorable	Balance of \$9M held for specific projects
117-Golf Course	Warning	Course losing money; balance can be used for maintenance/rehab
118-Self-Support Rev	Unfavorable	Requires \$300K ongoing subsidy (31% of annual cost)
150-Cable TV	Unfavorable	Requires \$400K ongoing subsidy (82% of annual cost)
530-Street Lighting	Unfavorable	Requires \$300K ongoing subsidy (17% of annual cost)
535-Park Maintenance	Unfavorable	Requires \$320K ongoing subsidy (32% of annual cost)
783-Info Systems	Warning	Running annual deficits, will need \$300K annual subsidy by late 2020s
784-Workers' Comp	Warning	Running annual deficits, will deplete reserve post-2036
785-Fleet Management	Favorable	Balance of \$27M working capital, \$19M of which belongs to General Purpose Fund
788-Telecommunication	Favorable	Balance of \$1.8M; may require more for future capital needs
789-Risk Management	Warning	Balance depleted by mid-2020s, requires \$2.8M annual subsidy
790-Communications	Warning	Balance insufficient to replace assets over time

# Alternative Forecast Outcomes

## Potential Outcomes that Would Improve Forecast

- Higher employee vacancy rates (more vacant positions or vacancies for longer periods of time)
- Delayed or weaker recessions
- PERS investment gains
- Voters approve a local funding measure
- Stronger economic development than already included in forecast

## Potential Outcomes that Would Worsen Forecast

- PERS investment losses (or additional discount rate cuts)
- Weaker revenue growth, fewer new hotel rooms, or more severe recession losses
- Higher annual COLAs approved than the 2% in forecast
- Staffing levels increased beyond current levels
- Extreme events

# Conclusions

- As with many cities, Garden Grove faces significant long-term budget challenges
- These challenges will begin to threaten the City's ability to continue providing services at current levels
- Current budget challenges require either significant cuts to key services, such as public safety, or additional locally-controlled revenues that are not subject to state takeaways
- Developing reliable budget models and strategies will help to preserve the City's flexibility and ability to provide services
- Strategies need to be developed in light of the City's community engagement efforts and the prioritization of key services it identifies

# For More Information

## **Contact:**

Robert Leland

Senior Advisor

[rleland@managementpartners.com](mailto:rleland@managementpartners.com)

(530) 219 – 5812 (direct)

(408) 437 – 5400 (office)

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	John Montanez
Dept.:	City Manager	Dept.:	Community Services
Subject:	Consideration of a written request to waive fees for the use of Atlantis Play Center for the OC Autism Christmas event on Saturday, December 15, 2018. (Cost: \$920) ( <i>Action Item</i> )		
		Date:	7/10/2018

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**OBJECTIVE**

To transmit a letter from the Orange County Autism (OCA) organization requesting approval to waive the non-resident/non-profit Exclusive Use Fee for their annual OCA Christmas event at the Atlantis Play Center.

**BACKGROUND**

The OCA is a Westminster based, tax exempt non-profit 501(c)(3), that provides assistance to children and adults with disabilities both locally and globally. In 2017, the City co-sponsored the OCA Christmas event, by waiving the non-resident/non-profit Exclusive Use Fees for Atlantis Play Center.

OC Autism's Breakfast with Santa invites 500 families with autism and special needs to enjoy a continental breakfast, pictures with Santa, toy give away and much more.

**FINANCIAL IMPACT**

The cost to co-sponsor the 2018 OCA Christmas event for exclusive use of the Atlantis Play Center by a non-resident/non-profit group is \$920 for an eight (8) hour time slot, which includes the cost to staff the event. City staff did request that OCA make a nominal contribution equal to 5% or more of the total permit rental fees being waived. However, due to the nature of this event, contributing 5% of the permit rental fees will cause financial hardship to the organization. As referenced in OCA's letter attached, OCA is requesting that the City waive the entire permit rental fee.

## RECOMMENDATION

It is recommended that the City Council:

- Consider the request to waive fees for the Orange County Autism organization for the use of the Atlantis Play Center for the OC Autism Christmas event on December 15, 2018.

By: Mark Freeman, Community Services Supervisor

### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
OC Autism request letter	6/27/2018	Letter	OCA_Xmas_2018_LOS_Venue-Part_2.pdf



*"Improving the lives of children and adults with disabilities locally and globally"*

## **Please Help Support Family and Special Needs Children in OC!**

OC Autism Foundation  
14501 Magnolia St, #104  
Westminster, CA 92683  
(714) 203-5213 Office  
contacts@ocautism.org  
www.ocautism.org

### **BOARD OF DIRECTORS**

Julie Chau Diep  
Executive Director

Hannah Tran  
Secretary

Neil Hong  
Treasurer

### **ADVISORY BOARD**

Chris Davidson

Lawrence Houser

Richard Isaac

Hue Pham

Quynh Kieu

Susanne Smith Roley

## ***Letter of Sponsorship- Atlantis Play Center (Waive Cost of Venue)***

Garden Grove City Council,

June 22, 2018

We are requesting to be on the City Council agenda to request for sponsorship of the venue and waive the cost of using the Atlantis Play Center. Our **9<sup>th</sup> Annual OC Autism Breakfast With Santa** will be on **Saturday, December 15, 2018**. It is a Garden Grove tradition for many years to serve the disability community and offer a safe and inviting environment for the whole family. We will offer many activities:

- Continental Breakfast
- Santa Claus Pictures
- Live Entertainments
- Arts & Crafts
- Face Painting
- Resource Fair

We recognize the budgetary issues, but we need your help in order to host this FREE community event for about 3,000 guests, including 1,000 children with Autism and their siblings. We are a volunteer-based organization so all 100% of our proceeds go directly to the community rather than on infrastructure or payroll. We have a volunteer planning committee and over 300 event volunteers to set-up before, serve during and breakdown after the event. The funds we raise are typically not enough to host the event, so we also rely heavily on the generous donation of our city, local businesses and friends for professional services and in-kind donations to ensure the success of our events.

We truly appreciate the **Community Partnership with the City of Garden Grove** and request for your ongoing support. If you have any questions, please do not hesitate to call us directly at (714) 203-5213 or email to [contacts@ocautism.org](mailto:contacts@ocautism.org).

Best Regards,

Julie Chau Diep, MS, CCC-SLP  
Executive Director, OC Autism  
[www.ocautism.org](http://www.ocautism.org)

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: Scott C. Stiles From: John Montanez  
Dept.: City Manager Dept.: Community Services  
Subject: Adoption of a Proclamation declaring July as Parks Make Life Better Month. (*Action Item*) Date: 7/10/2018

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Attached is a Proclamation declaring July 2018 as Parks Make Life Better Month recommended for adoption.

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Proclamation: July is Parks Make Life Better! Month	6/27/2018	Backup Material	PROCLAMATION-JulyisParksMakeLifeBetterMonth2018.docx



PROCLAMATION

**JULY IS PARKS MAKE LIFE BETTER!® MONTH**

WHEREAS, Across the nation, July is celebrated as Parks Make Life Better!® month; and

WHEREAS, Parks and recreation play a significant role in enhancing the quality-of-life in communities, while providing open space for people to engage in recreational activities, and gather and interact with others; and

WHEREAS, Investment in parks add value to homes and neighborhoods; increases economic growth and developments; protects the ecosystem; and preserves the historic, natural and cultural resources in the community; and

WHEREAS, Residents and visitors of Garden Grove value the parks and amenities available in the city for its access to safe outdoor spaces for children and adults to play and be active; and

WHEREAS, The City of Garden Grove continues to bring new additions and improvements to its parks, including Village Green, West Haven, Westgrove, and Garden Grove Park; and

WHEREAS, Recent park enhancements include brighter, energy-efficient Light Emitting Diode (LED) light poles; new, modern playground equipment and community meeting room; and a new, industry-standard, shade structure; and

WHEREAS, The City of Garden Grove encourages all residents to be active and healthy, utilize public parks and amenities, and participate in recreational activities.

NOW, THEREFORE, BE IT RESOLVED, that the Garden Grove City Council does hereby proclaim the month of July 2018 as Parks Make Life Better!® Month in the city of Garden Grove.

July 10, 2018

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Steven R. Jones  
*Mayor*

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Kris Beard  
*Mayor Pro Tem—District 1*

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John O'Neill  
*Council Member—District 2*

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Thu-Ha Nguyen  
*Council Member—District 3*

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Patrick Phat Bui  
*Council Member—District 4*

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Stephanie Klopfenstein  
*Council Member—District 5*

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Kim B. Nguyen  
*Council Member—District 6*

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	John Montanez
Dept.:	City Manger	Dept.:	Community Services
Subject:	Approval of a Letter Agreement with the Garden Grove Unified School District for use of Southern California Edison and City poles for the installation of banners. ( <i>Action Item</i> )		
		Date:	7/10/2018

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**OBJECTIVE**

To recommend that the City Council approve a Letter Agreement with the Garden Grove Unified School District (GGUSD) that will allow the installation and posting of special event banners on Southern California Edison (SCE)-owned and City-owned poles located within the public right-of-way.

**BACKGROUND**

The GGUSD contacted City staff with the request to install and post banners to SCE-owned and City-owned poles throughout Garden Grove. SCE has granted the City a license to install and post special event banners on SCE-owned poles located within the city's public right-of-way. The City owns and maintains hardware for banner displays on various poles owned by the City and SCE in the Civic Center area. In addition to using these poles, GGUSD has requested permission to install hardware on an additional 200 SCE poles listed in Attachment "A". GGUSD agrees to cover the full cost to install and maintain these additional 200 SCE poles.

**DISCUSSION**

Attached is a five-year Letter Agreement with GGUSD, allowing the District to install and post special event banners to poles owned by the City and SCE located in the City's public right-of-way from July 10, 2018 through June 30, 2023. The banners posted by GGUSD will not conflict with the City's current banner posting program. Significant aspects of this Letter Agreement include the following provisions:

- GGUSD must comply with several conditions in order to install and display banners on City and SCE poles. (Section 1);

- GGUSD will install and maintain at its sole cost the additional hardware for the 200 SCE poles. (Section 1.i.); and
- GGUSD and its contractors must comply with insurance requirements, including designation of the City of Garden Grove and SCE as an additional insured on the insurance policies. (Section 6)

#### FINANCIAL IMPACT

There will be no financial impact to the City's General Fund.

#### RECOMMENDATION

It is recommended that the City Council:

- Approve the Letter Agreement with GGUSD; and
- Authorize the City Manager, or his designee, to sign the Letter Agreement on behalf of the City, including making minor modifications as appropriate and necessary.

By: Janet Pelayo, Community Services Manager

#### **ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Letter Agreement	6/29/2018	Backup Material	7-10-18_GGUSD_Agreement_for_Postings_on_SCE_Light_Poles_6-29-18.pdf
Attachment A	6/29/2018	Backup Material	Attachement_A_-_Letter_Agreement_with_GGUSD_-_list_of_200_additional_SCE_poles_for_banners_PDF.pdf

July 10, 2018

Dr. Gabriela Mafi, Superintendent  
Garden Grove Unified School District  
10331 Stanford Ave.  
Garden Grove, CA 92840

Subject: Agreement for Posting of GGUSD Special Events Street Banners  
July 10, 2018 through June 30, 2023

Dear Dr. Mafi:

Southern California Edison ("SCE") has granted the City of Garden Grove ("City") a license to install and post special event banners on SCE-owned poles located within the City's public right-of-way. Installation of banners must be City-sponsored. In addition, the City owns and maintains hardware for banner displays on various poles owned by the City and SCE in the Civic Center area.

Upon acceptance of the conditions stated in this letter agreement, the City agrees to sponsor the request from the **Garden Grove Unified School District** ("GGUSD") to attach special event banners to poles owned by the City and SCE located in the City of Garden Grove public right-of-way.

1. Banners may be displayed on poles subject to this letter agreement in accordance with the following conditions:
  - a. Attachments shall be secured by means of stainless steel straps and/or brackets.
  - b. No holes shall be punched, drilled, or burned in any poles.
  - c. All attachments shall be mounted so as to provide adequate clearance from traffic, pedestrians, and from all electrical facilities, and secured to poles to avoid dislodging.
  - d. The total surface area of all attachments on any one pole shall not exceed 18 square feet at any one time.
  - e. Banners for use on poles in high wind areas (90 mph) must be mounted with breakaway, or bend-away banner supports.
  - f. No attachment shall be suspended between poles or between poles and

structures.

- g. No attachment shall be installed on any wooden poles.
  - h. No Corporate Trademarks, Logos or other corporate identifiers shall be allowed on the City sponsored banners.
  - i. GGUSD will install and maintain at its sole cost the 200 SCE poles listed in Attachment "A".
  - j. The banners shall be limited to GGUSD special events and GGUSD shall not lease or allow other third parties to post banners or otherwise use the poles.
  - k. Banners shall be posted for no longer than 90 days per calendar year.
  - l. GGUSD will provide a schedule of the banners proposed to be displayed annually, no later than six months prior to the first banners to be displayed.
- 2. The attachments shall be installed and maintained by GGUSD, or GGUSD's authorized agent, in a safe and workman-like manner in compliance with all applicable laws, rules, regulations, ordinances, including but not limited to General Order No. 95 of the Public Utilities Commission of the State of California. GGUSD's installation agents or contractors shall be approved by the City, which approval shall not be unreasonably withheld.
  - 3. Should SCE or City, in their sole and absolute discretion, determine that it is necessary to relocate or replace a pole listed on Exhibit "A" on which an attachment is in place, GGUSD, or GGUSD's agent shall, upon reasonable notice from SCE and/or the City, promptly relocate, replace or transfer said attachment to a substitute pole, if any, as required, at GGUSD's sole cost and expense.
  - 4. GGUSD shall indemnify and hold harmless the City and SCE against all losses, expenses, claims, actions, causes of action, damages, costs or liabilities, directly or proximately resulting from or caused by the installation, placement, use, presence, operation, maintenance, and/or removal of GGUSD's attachments on any poles, as herein provided. The termination of this agreement shall not relieve the GGUSD of any liabilities which occurred prior thereto or which are occurring at that time. This paragraph shall not be construed to impose liability on either the City or the GGUSD, in favor of any third party, unless such liability would have existed in the absence of this paragraph.
  - 5. The failure of the City to enforce any provision of this letter agreement, or the waiver thereof, shall not be construed as a general waiver of relinquishment on its part of any such provisions; however, the same shall nevertheless remain in full force and effect.

## **Insurance Requirements**

- 6.1 Commencement of work. GGUSD shall not commence any work under this agreement until it has obtained all insurance required and this insurance has been approved by the City of Garden Grove. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the City of Garden Grove of any material change, cancellation, or termination at least thirty (30) days in advance and a waiver of subrogation. School District's subcontractors shall maintain the same insurance as required of School District herein. School District shall be responsible to collect and maintain all insurance required of subcontractors and to ensure subcontractor's insurance meets or exceeds the requirements herein.
- 6.2 Workers' Compensation Insurance. During the duration of this Agreement, GGUSD and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by law, if applicable.
- 6.3 Insurance Amounts. GGUSD and all subcontractors shall maintain the following insurance for the duration of this Agreement:
- (a) Commercial general liability in an amount not less than \$1,000,000.00 per occurrence (**claims made and modified occurrence policies are not acceptable**); Insurance companies must be acceptable to CITY and have a Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
  - (b) Automobile liability **for all autos** in an amount of \$1,000,000.00 combined single limit (**claims made and modified occurrence policies are not acceptable**); Insurance companies must be acceptable to CITY and have a Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
- 6.4 Endorsements And Other Requirements.
- (a) An **On-Going and Completed Operations Additional Insured Endorsement** for the policy under section 6.3(a) shall designate the City of Garden Grove, Southern California Edison Company, and their respective officers, officials, employees, agents, and volunteers as additional insureds for liability arising out of work or operations performed by or on behalf of GGUSD. GGUSD shall provide to the City of Garden Grove proof of insurance and endorsement forms that conform to the City's requirements, as approved by the City.

- (b) An Additional Insured Endorsement for the policy under section 6.3(b) shall designate the City of Garden Grove, Southern California Edison Company, and their respective officers, officials, employees, agents, and volunteers as additional insureds for automobiles, owned, leased, hired, or borrowed by GGUSD. GGUSD shall provide to the City proof of insurance and endorsement forms that conform to the City's requirements, as approved by the City.
  - (c) For any claims related to this Agreement, GGUSD's insurance coverage shall be primary insurance as it respects the City of Garden Grove, Southern California Edison Company, and their respective officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the City of Garden Grove, Southern California Edison Company, and/or their respective officers, officials, employees, agents, and volunteers shall be excess of the GGUSD's insurance and shall not contribute with it.
  - (d) If GGUSD maintains higher insurance limits than the minimums shown above, GGUSD shall provide coverage for the higher insurance limits otherwise maintained by the GGUSD.
- 7. **Notices.** All notices shall be personally delivered or mailed to the below listed address, or to such other addresses as may be designated by written notice.
  - a. (GGUSD)  
Garden Grove Unified School District  
Attention: Abby Milone  
10331 Stanford Avenue  
Garden Grove, CA 92840
  - b. (Address of City) (with a copy to):  
City of Garden Grove Garden Grove City Attorney  
11222 Acacia Parkway 11222 Acacia Parkway  
Garden Grove, CA 92840 Garden Grove, CA 92840
- 8. Except as may be specifically provided for herein, nothing contained in this letter agreement is intended to confer, nor shall it be construed as conferring, any rights, including, without limitation, any rights as third-party beneficiary or otherwise, upon any entity or person not a party hereto.
- 9. This authorization is granted to attach special event banners on a temporary basis from **July 10, 2018** through **June 30, 2023** to Garden Grove and SCE-owned street

Dr. Gabriela Mafi, Superintendent  
Garden Grove Unified School District  
Special Events Street Banners  
July 10, 2018 through June 30, 2023  
Page 5

light poles located in the City of Garden Grove public right-of-way upon receipt by the City of Garden Grove of one copy of this letter signed by a duly authorized official of the GGUSD and fulfillment of the above listed insurance requirements. The City may terminate this letter agreement at any time subject to 30 days' notice, provided that GGUSD shall be entitled to reimbursement of its original attachment installation costs prorated by the amount of time left of the five-year term of this letter agreement or will be entitled to obtain the hardware installed on the 200 SCE poles listed in Attachment "A".

The person signing below on behalf of the GGUSD represents and warrants that he/she is authorized to bind the GGUSD to the terms and conditions of this agreement.

Respectfully,

Scott C. Stiles  
City Manager

Accepted and Agreed To:

**Garden Grove Unified School District**

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)**

	<b>STREET</b>	<b>POLE #</b>	<b>CROSS STREET</b>	<b>SCHOOL SITE</b>
	<b>Springdale St.</b>			
1		2243218E		Pacifica
2		1315005E		Pacifica
3		4008941E		Pacifica
4		1374258E		Pacifica
5		4741511E		Pacifica
6		4111122E		Pacifica
			Lampson Ave.	

	<b>Knott Ave.</b>		<b>Chapman Ave.</b>	
7		1315465E		Pacifica
8		1315464E		Pacifica
9		2098985E		Pacifica
10		1810721E		Pacifica
11		4194590E		Pacifica
12		2320030E		Pacifica
13		2320029E		Pacifica
14		2320028E		Pacifica
15		2320027E		Pacifica
16		2320026E		Pacifica
17		2320025E		Pacifica
			Lampson Ave.	

	<b>Magnolia Ave.</b>			
18		4194728E		Hare
19		4017791E		Hare
20		4470751E		Hare
21		4017789E		Hare
22		4017788E		Hare
23		4017787E		Rancho
24		4017786E		Rancho
25		4017785E		Rancho
26		4208092E		Rancho
27		4017797E		Rancho
28		4017796E		Rancho
29		4017795E		Rancho
30		4011794E		Rancho
31		4017793E		Rancho
			Lampson Ave.	
32		4110451E		Rancho

**Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)**

33	2258563E	Rancho
34	4024674E	Rancho
35	4288383E	Rancho
36	2256560E	Rancho
37	2256559E	Rancho
38	4741997E	Rancho
39	4465484E	Rancho
40	2256556E	Rancho
41	2258555E	Rancho
42	4288369E	Rancho
43	4473290E	Rancho
44	2256552E	Rancho
45	4194725E	Rancho

Garden Grove Blvd.  
Trask Ave.  
22 Fwy

46	2341061E	Bolsa
47	4470894E	Bolsa
48	2095754E	Bolsa
49	2341059E	Bolsa
50	2341058E	Bolsa
51	2341057E	Bolsa
52	4288327E	Bolsa
53	4741995E	Bolsa
54	2341064E	Bolsa
55	4683880E	Bolsa

Brookhurst St.			
56	4208079E		General GGUSD
57	2215917E		General GGUSD
58	4455289E		General GGUSD
59	4474495E		General GGUSD
60	4024683E		General GGUSD
61	2215922E		General GGUSD
62	4024755E		General GGUSD
		Stanford	
63	2215661E		General GGUSD
64	4264209E		General GGUSD
		Garden Grove Blvd.	
		Trask Ave.	
		22 Fwy	
65	4284144E		Bolsa Grande
66	1985493E		Bolsa Grande

**Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)**

67	2117514E		Bolsa Grande
68	4473305E		Bolsa Grande
69	1985490E		Bolsa Grande
70	4473252E		Bolsa Grande
71	4683663E		Bolsa Grande
72	4158897E		Bolsa Grande
73	4288415E		Bolsa Grande
		Westminster Blvd.	
74	4473267E		Bolsa Grande
75	4474481E		Bolsa Grande
76	4314207E		Bolsa Grande
77	2256351E		Bolsa Grande
78	4264454E		Bolsa Grande
79	4194723E		Bolsa Grande

**Euclid St.**

**Chapman Ave.**

80	4716005E		General GGUSD
81	2258357E		General GGUSD
82	2063267E		General GGUSD
83	4288370E		General GGUSD
84	4288307E		General GGUSD
85	4716037E		Garden Grove
86	2083263E		Garden Grove
87	4313788E		Garden Grove
88	2083261E		Garden Grove
89	4716034E		Garden Grove
90	2083259E		Garden Grove
91	2083258E		Garden Grove
92	4465488E		Garden Grove
93	2083256E		Garden Grove
94	2083255E		Garden Grove
95	2083254E		Garden Grove

**Lampson Ave.**

**Harbor Blvd.**

96	4471566E		General GGUSD
97	4459871E		General GGUSD
98	1954396E		General GGUSD
99	2009651E		General GGUSD
100	4465497E		General GGUSD
		Lampson Ave.	
		Garden Grove Blvd.	
101	2009571E		Santiago

**Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)**

102	4264216E		Santiago
103	2146216E		Santiago
104	4288575E		Santiago
105	4313773E		Santiago
106	2009552E		Santiago
107	2009551E		Santiago
		22 Fwy Trask Ave.	
108	2009565E		Santiago
109	4110818E		Santiago
110	474195E		Santiago
111	2286050E		Santiago
112	2009561E		Santiago
113	4473309E		Santiago
114	2009559E		Santiago
115	2009558E		Santiago
116	2009557E		Santiago
117	2095787E		Santiago
118	2009555E		Santiago
119	2009554E		Santiago
120	2009553E		Santiago

**Chapman Ave.**

**Gilbert St.**

121	4470860E		General GGUSD
122	4024668E		General GGUSD
123	2215878E		General GGUSD
124	2008351E		General GGUSD
125	2008352E		General GGUSD
126	2008636E		General GGUSD
127	2008356E		General GGUSD
128	2008357		General GGUSD
129	4471563E		General GGUSD
130	2008360E		General GGUSD
131	4288561E		General GGUSD

**Nelson St.**

132	2051129E
133	4460597E

**Euclid St.**

134	4461109E	General GGUSD
135	2215695E	General GGUSD
136	4292321E	General GGUSD
137	1916646E	General GGUSD
138	4008910E	

**Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)**

**West St.**

139	2349420E	General GGUSD
140	4489886E	General GGUSD
141	2349418E	General GGUSD
142	2349417E	General GGUSD
143	4008919E	General GGUSD
144	2349415E	General GGUSD

**Harbor Blvd.**

145	2061501E	General GGUSD
146	2061802E	General GGUSD
147	4716022E	General GGUSD
148	4158858E	General GGUSD
149	2081805E	General GGUSD
150	2081808E	General GGUSD

<b>Lampson Ave.</b>		<b>Knott Ave.</b>	
151	2320024E		Pacifica
152	4209061E		Pacifica

**Garden Grove Blvd.**

153	4314233E	General GGUSD
154	1956882E	General GGUSD
155	4008912E	General GGUSD
156	4742320E	General GGUSD

**Brookhurst St.**

157	4696962E	General GGUSD
158	2194321E	General GGUSD
159	2194322E	General GGUSD
160	4595963E	General GGUSD
161	4695971E	General GGUSD
162	4898972E	General GGUSD
163	4696973E	General GGUSD
164	4696974E	General GGUSD

**Nutwood St.**

165	2194328E	General GGUSD
166	4742310E	General GGUSD
167	4696983E	General GGUSD
168	4696984E	Garden Grove
169	2194340E	Garden Grove
170	4715791E	Garden Grove

**Century St.**

171	4741998E	Garden Grove
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# Attachment A - Letter Agreement with GGUSD (list of additional 200 SCE poles)

172	2118038E	Garden Grove
173	2118035E	Garden Grove
174	4314210E	Garden Grove

## Trask

175	4269057E	General GGUSD
176	4303907E	General GGUSD
177	4269056E	General GGUSD
178	4269055E	General GGUSD

## Euclid St.

179	4716488E	General GGUSD
180	4303904E	General GGUSD
181	4288054E	General GGUSD
182	4288053E	General GGUSD
183	4269052E	General GGUSD

Westminster Ave.		Harbor Blvd.	
184	4209034E		Santiago
185	4288346E		Santiago
186	4209035E		Santiago
187	4229247E		Santiago
188	4229246E		Santiago
189	4229245E		Santiago
190	4229243E		Santiago
191	4470688E		Santiago
192	4229239E		Santiago

## Deodora (Bolsa Adjacent)

## Westminster Blvd.

193	4288415E	Bolsa
194	4158897E	La Quinta
195	4883883E	Bolsa
196	4473252E	Rancho
198	1985490E	Bolsa
199	Unknown	Pacifica
200	Unknown	Bolsa

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Authorize issuance of a purchase order for one (1) new Police Department sedan. (Cost: \$24,313.92) ( <i>Action Item</i> )	Date:	7/10/2018

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**OBJECTIVE**

To secure City Council authorization to purchase one (1) new Police Department sedan from National Auto Fleet Group through the National Joint Powers Alliance (NJPA) competitive bid program, Contract #120716.

**BACKGROUND**

The Public Works Department is responsible for providing all city departments with safe and reliable vehicles. Recently, a Police Department sedan was involved in a traffic collision with costs to repair the damage exceeding the vehicle's value. Consequently, the vehicle was totaled and under policy guidelines requires replacement. Experience has shown that the City's buying power is enhanced through joining with other public agencies to purchase fleet vehicles and equipment.

**DISCUSSION**

The NJPA nationally solicits, evaluates and awards contracts through a competitive bid process. As a member, the City is able to utilize NJPA bid awards for equipment purchases. Staff recommends piggybacking on the results of a recent NJPA competitive bid program, Contract #120716. The results deemed National Auto Fleet Group as the lowest responsive bid.

National Auto Fleet Group

\$24,313.92 each\*

\* This price includes all applicable tax and destination charges.

**FINANCIAL IMPACT**

The financial impact is \$24,313.92 to the Fleet Management Fund. There is no

impact to the General Fund. The surplus vehicles will be sold at public auction.

#### RECOMMENDATION

It is recommended that the City Council:

- Authorize the Finance Director to issue a purchase order in the amount of \$24,313.92 to National Auto Fleet Group for the purchase of one (1) new Police Department sedan.

By: Steve Sudduth, Equipment Maintenance Supervisor



**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott Stiles	From:	Tom Schultz
Dept.:	City Manager	Dept.:	Fire
Subject:	Approval of an agreement with Westnet, Inc., for the installation of fire station alerting systems for Fire Station No. 6 located at 12232 West Street, Garden Grove. (Cost: \$72,553.77) ( <i>Action Item</i> )		
		Date:	7/10/2018

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**OBJECTIVE**

For the City Council to approve an agreement with Westnet, Inc. for the installation of fire station alerting systems for Fire Station No. 6 located at 12232 West Street.

**BACKGROUND**

On May 23, 2017, construction started on Fire Station No. 6. As the station nears completion, it needs alerting equipment to be installed before the building can be considered an operational fire station.

**DISCUSSION**

The City of Garden Grove's 911 emergency calls are dispatched through Metro Cities Fire Authority (MetroNet). MetroNet exclusively uses Westnet's First-In Alerting Systems to alert all Garden Grove fire stations of emergencies. Fire Station No. 6 needs to have Westnet's First-In Alerting Systems equipment installed to keep equipment standardized between all Garden Grove fire stations and MetroNet.

In accordance with Section 2.50.060(C) of the Garden Grove Municipal Code, the Finance Director has determined that the acquisition of required equipment can only be obtained through Westnet Inc., a sole source vendor.

**FINANCIAL IMPACT**

The cost for Westnet to supply and install the alerting equipment is \$72,553.77. Funds from Proposition 172, restricted for public safety, will be used to cover the cost of the agreement. Since the funds will be used from Proposition 172, there will

no impact to the General Fund.

### RECOMMENDATION

It is recommended that the City Council:

- Approve the Agreement with Westnet, Inc., in the amount of \$72,553.77, to install fire station alerting systems for Fire Station No. 6; and
- Authorize the City Manager to sign the Agreement on behalf of the City.

By: Trevor Smouse, Fiscal Analyst

### ATTACHMENTS:

Description	Upload Date	Type	File Name
Westnet, Inc. Agreement	6/27/2018	Backup Material	Westnet_Agreement_2018.pdf
Westnet Sole Source Memo	6/27/2018	Backup Material	Westnet__Inc._Sole_Source_Memo.pdf



**WESTNET®**

# **Garden Grove Fire Department**



## **Contract and Statement of Work for Installation of First-In Fire Station Alerting Systems for FS # 6**

**Westnet, Inc.  
Huntington Beach, CA 92649  
(800) 807-1700  
[www.FirstInAlerting.com](http://www.FirstInAlerting.com)**



**WESTNET**

## **CONTRACT FOR FIRE STATION ALERTING SYSTEM EQUIPMENT AND INSTALLATION**

City of Garden Grove, a California municipal corporation, through its Fire Department, the end user ("Customer"), having a principal place of business at 11301 Acacia Pkwy, Garden Grove, CA 92840 and Westnet, Inc., a California corporation, as Contractor ("Westnet"), having a place of business at 15542 Chemical Lane, Huntington Beach, CA 92649, enter into this Contract (the "Contract"), pursuant to which Customer will purchase and Westnet will sell the equipment and services more fully described below. Customer and Westnet may be referred to individually as "Party" and collectively as the "Parties."

### **EXHIBITS**

The Exhibits listed below are incorporated into and made a part of this Contract. In interpreting this Contract and resolving any ambiguities, the main body of this Contract will take precedence over the Exhibits and any inconsistency between the Exhibits will be resolved in the order in which they are listed.

Exhibit A	Statement of Work, Delivery and Installation Verification Forms
Exhibit B	Warranty
Exhibit C	Contract Price and Deliverables
Exhibit D	Payment Schedule
Exhibit E	Acceptance Test Plan
Exhibit F	Final System Acceptance Certificate
Exhibit G	Maintenance and Support Statement of Work

### **DEFINITIONS**

Capitalized terms used in this Contract shall have the following meanings:

"Acceptance Tests" means those tests described in the Acceptance Test Plan

"Confidential Information" is any information disclosed in written, graphic, verbal, or machine-recognizable form, and is marked, designated, labeled or identified at the time of disclosure as being confidential or its equivalent; or if in verbal form is identified as confidential or proprietary at the time of disclosure and confirmed in writing within thirty (30) days of such disclosure. Confidential Information shall not include any information that: (i) is or becomes publicly known through no wrongful act of the receiving party; (ii) is already known to the receiving party without restriction when it is disclosed; (iii) is, or subsequently becomes, rightfully and without breach of this Contract, in the receiving party's possession without any obligation restricting disclosure; (iv) is independently developed by the receiving party without breach of this Contract; or (v) is explicitly approved for release by written authorization of the disclosing party.

"Contract Price" means the price for the System, inclusive of freight and handling charges, as well as applicable state sales tax at the rate as stated in Exhibit C, but exclusive of any other applicable sales or similar taxes or tax rate changes.

"Effective Date" means the date upon which the last party to sign this Contract has executed it.

"Equipment" means the hardware listed in the Statement of Work (Exhibit C)

"Final System Acceptance" means the Customer's written acceptance of the total System pursuant to the terms of the Contract.

"Maintenance and Support Services" means the services described in Exhibit G, Westnet's Maintenance and Support Statement of Work.

"Post Warranty Period" is the period after the expiration of the Warranty (Exhibit B).



"Punch List" is a list of mutually agreed upon tasks that need to be performed to satisfy the terms of this contract (Exhibit A-2)

"Specifications" means the technical, design, engineering, operational, functional, and interface requirements of the System or, if the context so indicates, of the Software or Equipment, all as provided in this Contract.

"System" means the deliverables to be provided by Westnet under this Contract and is comprised of the Equipment and services as described in Exhibits A and C.

"System Acceptance" means Westnet's successful completion of the Acceptance Tests.

"Warranty Period" is the period as stated in Exhibit B.

## **CHANGE ORDERS**

Either party may request changes within the general scope of this Contract. If Customer wishes to increase or decrease the scope of the Contract by means of a negotiated change order, it will so notify Westnet and clearly state the requested changes. Westnet shall promptly review all requested scope changes and assess the effect of the requested change to the overall System performance and project schedule. If Westnet determines that the requested change will not be detrimental to System performance, Westnet will prepare an estimate of the price of the Equipment and services being added or deleted. After receiving Westnet's estimate, Customer shall promptly in writing approve, disapprove or request further information regarding the estimate. If approved, the Contract Price shall be increased or decreased by the amount of the estimate and the Exhibits shall be amended to reflect the change in scope. A negotiated change order will not be effective unless it is in writing and executed by authorized representatives of both parties.

## **PROJECT SCHEDULE**

Westnet will commence performance of this Contract upon receipt of the executed Contract from Customer and when the payment obligations listed in the Payment Schedule are satisfied. The Customer shall provide Westnet with a project schedule and shall inform Westnet in writing of changes to that schedule. If either party becomes aware that a delay will occur, it will promptly notify the other party of such delay.

## **FINANCIAL TERMS**

1. **CONTRACT PRICE AND PAYMENT.** Westnet will submit invoices to Customer in accordance with the Payment Schedule (Exhibit D). Customer will pay the amount due within thirty (30) days of receipt of a proper invoice.
2. **ADDITIONAL PURCHASES.** The Price Schedule lists the prices and discounts for the Software, Equipment, and Maintenance and Support Services, and such prices will be firm for ninety (90) days from the Effective Date of this Contract. To make additional purchases, Customer will issue a purchase order that references this Contract, and these terms and conditions will apply to such transactions except that Westnet will submit invoices for such additional purchases as Equipment is shipped and monthly as services are performed.
3. **TAXES AND PERMIT FEES:** Unless specifically included in Exhibit C, the Contract Price excludes federal, state, or local sales, use, or other taxes (other than federal, state, and local taxes based on Westnet's income or net worth), all of which will be paid by Customer except as exempt by law. Increases in any tax rate as listed in Exhibit C shall be paid by Customer. The Customer agrees to pay or reimburse Westnet plus overhead for all permit fees, fees by others, and related expenses unless specifically listed and at the amount in Exhibit C.

## **SHIPMENT; TITLE; RISK OF LOSS**



1. **SHIPMENT AND TITLE TO GOODS.** Westnet will pack and ship all Equipment F.O.B. to the delivery sites designated by Customer in accordance with the applicable packing and shipping instructions or, in the absence of such instructions, with best commercial practices to ensure safe arrival at the destination. Title to the Equipment shall pass to Customer upon completion of installation.
2. **RISK OF LOSS.** Risk of loss for the Equipment shall pass to Customer upon delivery.

### **SYSTEM ACCEPTANCE**

After the Equipment is installed, Westnet will notify Customer in writing that it is ready to commence the Acceptance Test. Westnet and Customer will mutually agree on the date to commence the Acceptance Test per the acceptance test procedure of Exhibit E. If Customer is unable or unwilling to participate in the Acceptance Tests within the on-site installation period, the Acceptance Test procedure will be conducted by an authorized Westnet representative with results shared in writing to Customer. When the System is fully operational based on the documented acceptance test procedure, the System will be deemed accepted as certified in Exhibit F.

### **DELAYS**

Neither party will be liable for its non-performance or delayed performance if caused by a "Force Majeure" which means an event, circumstance, or act of a third party that is beyond a party's reasonable control, such as an act of God, an act of the public enemy, an act of a government entity, strikes or other labor disturbances, hurricanes, earthquakes, fires, floods, epidemics, embargoes, war, riots, or any other similar cause. Each party will notify the other if it becomes aware of any Force Majeure that will significantly delay performance. The notifying party will give such notice promptly (but in no event later than fifteen (10) days) after it discovers the Force Majeure. If a Force Majeure occurs, the parties will execute a change order to extend the Project Schedule for a time period that is reasonable under the circumstances.

### **DEFAULT AND TERMINATION**

1. **DEFAULT.** If either party breaches a material obligation under this Contract, the other party may consider the breaching party to be in default. If a party asserts a default, it will give the breaching party a written notice of the default. The breaching party will have ten (10) business days thereafter either to cure the default or provide a written plan to cure the default that is acceptable to both parties. If the breaching party provides a cure plan, it will begin implementing the cure plan immediately after receipt of the non-breaching party's approval of the cure plan. If the breaching party fails to provide a cure plan, or fails to cure the default in accordance with the approved cure plan, then the non-breaching party may terminate this Contract for breach.
2. **RETURN OF CONFIDENTIAL INFORMATION AND SYSTEM COMPONENTS.** Upon the termination of this Contract, all Confidential Information provided by Westnet (including all copies and reprints) that is in Customer's possession, custody, or control shall be promptly delivered to Westnet, and Customer shall thereafter make no further direct or indirect use of such material.

The Customer agrees to return to Westnet those components of the System not yet accepted and paid for in full together with all copies of software, documentation and any related material. Any data or data files generated by the Customer shall remain the property of the Customer.

### **WARRANTY**

Warranty services for the System will be provided per the terms of Westnet's Limited Warranty (Exhibit B).

### **MAINTENANCE AND SUPPORT**





During the Post Warranty Period, Westnet will make Maintenance and Support Services available to Customer. Customer understands that it will be obligated to purchase such services at the time services are rendered unless the Customer and Westnet have executed a Maintenance and Support Agreement. If Customer exercises its option to purchase extended Maintenance and Support, notice must be provided at least 30 days prior to the expiration of the Warranty Period. See Maintenance and Support Statement of Work (Exhibit G) for complete details.

#### **LIMITATION OF LIABILITY; REMEDIES**

**This Contract is subject to the limitation of liability and other provisions set forth in the Standard Limited Warranty of Westnet. Neither party will be liable to the other for incidental or consequential damages arising from this Contract.** Except as expressly provided to the contrary, the rights and remedies provided in this Contract are cumulative.

#### **CONFIDENTIALITY**

During the term of this Contract, a party may provide the other with Confidential Information as defined in the Definitions section of this contract. Each party who receives the Confidential Information of the other party will: (i) maintain the confidentiality of such Confidential Information and not disclose it to any third party, except as authorized by the disclosing party in writing or as required by a court of competent jurisdiction; (ii) restrict disclosure of Confidential Information to its employees who have a "need to know" and not copy or reproduce such Confidential Information; (iii) take necessary and appropriate precautions to guard the confidentiality of Confidential Information, including informing its employees who handle such Confidential Information that it is confidential and not to be disclosed to others, but such precautions shall be at least the same degree of care that the receiving party applies to its own confidential information and shall not be less than reasonable care; and (iv) use such Confidential Information only in furtherance of the performance of this Contract, Westnet's Maintenance and Support Agreement, or to otherwise support Customer in its use and maintenance of the System. Confidential Information is and shall at all times remain the property of the disclosing party, and no grant of any proprietary rights in the Confidential Information is hereby given or intended, including any express or implied license, other than the limited right of the recipient to use the Confidential Information in the manner and to the extent permitted by this Agreement.

#### **DISPUTES**

1. **SETTLEMENT PREFERRED.** The parties will attempt to settle any claim or controversy arising from this Contract through consultation and negotiation in good faith and a spirit of cooperation. The respective project managers will confer and attempt to settle a dispute. The dispute will be escalated to appropriate higher-level managers of the parties, if necessary.
2. **LITIGATION.** Any claim relating to intellectual property and any dispute that cannot be resolved between the parties through negotiation as described above shall then be submitted by either party to the Orange County, California Superior Court or the United States District Court, Santa Ana, California.

#### **GENERAL**

1. **TAXES.** Unless specifically included in Exhibit C, the Contract Price excludes federal, state, or local sales, use, or other taxes (other than federal, state, and local taxes based on Westnet's income or net worth), all of which will be paid by Customer except as exempt by law.
2. **NO ASSIGNMENT.** Unless otherwise expressly provided, neither party may assign this Contract without the prior written consent of the other party. This Contract will inure to the benefit of and be binding upon the parties and their successors and permitted assignees.
3. **WAIVER.** Failure or delay by either party to exercise any right or power under this Contract will not operate as a waiver of such right or power. For a waiver of a right or power to be effective, it must be in writing signed by the waiving party. An effective waiver of a right or power shall not be construed



as either a future or continuing waiver of that same right or power, or the waiver of any other right or power.

4. **SEVERABILITY.** If a court of competent jurisdiction renders any provision of this Contract (or portion of a provision) to be invalid or otherwise unenforceable, that provision or portion of the provision will be severed and the remainder of this Contract will continue in full force and effect as if the invalid provision or portion of the provision were not part of this Contract.
5. **INDEPENDENT CONTRACTORS.** Each party shall perform its duties only as an independent contractor. A party and its personnel shall not be considered to be an employee or agent of the other party. Nothing in this Contract shall be interpreted as granting either party the right or authority to make commitments of any kind for the other. This Contract shall not constitute, create, or in any way be interpreted as a joint venture, partnership or formal business organization of any kind.
6. **HEADINGS AND SECTION REFERENCES; CONSTRUCTION.** The section headings in this Contract are inserted only for convenience and are not to be construed as part of this Contract or as a limitation of the scope of the particular section to which the heading refers. This Contract will be fairly interpreted in accordance with its terms and conditions and not for or against either party.
7. **GOVERNING LAW.** This Contract and the rights and duties of the parties will be governed by and interpreted in accordance with the laws of the State of California.
8. **ENTIRE AGREEMENT.** This Contract, including all Exhibits, constitutes the entire agreement of the parties regarding the subject matter hereof and supersedes all previous agreements, proposals, and understandings, whether written or oral, relating to such subject matter. This Contract may be amended or modified only by a written instrument signed by an authorized representative of each party. This Contract may be executed in counterparts.
9. **NOTICES.** Notices required under this Contract to be given by one party to the other must be in writing and either delivered in person or sent to the address shown below by certified mail, return receipt requested and postage prepaid (or by a recognized courier service with an asset tracking system, such as Federal Express, UPS, or DHL), or by E-mail with correct Read Receipt acknowledgement, and shall be effective upon receipt.

**Westnet:**

Westnet, Inc.  
Attn: Dawn Matheny  
15542 Chemical Lane  
Huntington Beach, CA 92649  
DMatheny@westnet-inc.com

**Customer:**

Garden Grove Fire Department  
Attn: Division Chief, Paul Whittaker  
11301 Acacia Pkwy,  
Garden Grove, CA 92840  
pwhittaker@ci.garden-grove.ca.us

10. **AUTHORITY TO EXECUTE AGREEMENT.** Each party represents to the other that (i) it has obtained all necessary approvals, consents and authorizations to enter into this Contract and to perform its duties under this Contract; (ii) the person executing this Contract on its behalf has the authority to do so; (iii) upon execution and delivery of this Contract by the parties, it is a valid and binding contract, enforceable in accordance with its terms; and (iv) the execution, delivery, and performance of this Contract does not violate any bylaw, charter, regulation, law or any other governing authority of the party.
11. **USE OF TRADEMARKS AND NAMES.** Except as expressly agreed to in writing, neither party may use the other party's name, logo, or trademarks, or any abbreviation of the other party's name, in any advertising, marketing campaigns, press releases, or communication with the press, without the specific prior consent of the other party. Each party must strictly follow the other party's instructions concerning use of the other party's trademarks.





12. **NO LICENSE OF WESTNET'S INTELLECTUAL PROPERTY.** This Contract does not grant to Customer any license under any patents or other intellectual property rights of Westnet. This Contract does not grant either party the right to manufacture any of the other party's Software or Equipment.
13. **SURVIVAL OF TERMS.** The provisions found in the following paragraphs shall survive the expiration or termination of this Contract for any reason: **WARRANTY; LIMITATION OF LIABILITY; CONFIDENTIALITY; and DISPUTES.**
14. **PUBLICITY.** Neither party shall issue a press release or make any similar public announcement regarding the transactions contemplated by this Agreement without the other party's prior written consent to the specific language and intended distribution of such press release or announcement.
15. **INDEMNITY** To the fullest extent permitted by law, Westnet shall indemnify, defend (at Westnet's sole cost and expense), and hold harmless the City of Garden Grove and its councilmembers, officers, officials, employees, agents, and volunteers, (individually "Indemnified Party"; collectively "Indemnified Parties") against any and all third party liability, claims, judgments, costs, and demands (collectively, "Claims"), including Claims arising from injuries or death of persons (Westnet's employees included) and damage to property, which Claims arise out of, pertain to, or are related to the negligence, recklessness or willful misconduct of Westnet, its agents, employees, or subcontractors, or arise from Westnet's performance or non-performance of any term, provision, covenant or condition of this Contract("Indemnified Claims"), but Westnet's liability for Indemnified Claims shall be reduced to the extent such Claims arise out of, pertain to, or are related to the negligence, recklessness or willful misconduct of the Indemnified Parties or arise from the Indemnified Parties' performance or non-performance of any term, provision, covenant or condition of this Contract.
- a. Westnet shall reimburse the Indemnified Parties for any reasonable expenditures, including reasonable attorneys' fees, expert fees, litigation costs and expenses ("Costs") that each Indemnified Party may incur by reason of Indemnified Claims. Upon request by an Indemnified Party, Westnet will defend with legal counsel reasonably acceptable to the Indemnified Party all Claims against the Indemnified Party that may arise out of, pertain to, or relate to Indemnified Claims, whether or not Westnet is named as a party to the Claim proceeding. The determination whether a Claim may "arise out of, pertain to, or relate to" Indemnified Claims shall be based on the allegations made in the Claim and the facts known or subsequently discovered by the Parties. In the event a final judgment, arbitration award, order, settlement, or other final resolution expressly determines that Claims did not arise out of, pertain to, nor relate to the negligence, recklessness or willful misconduct of Westnet or Westnet's failure to perform any term, provision, covenant or condition of this Contract to any extent, then City will reimburse Westnet for the reasonable Costs of defending the Indemnified Parties against such Claims, except City shall not reimburse Westnet for that portion of the Costs incurred defending Westnet or any parties other than Indemnified Parties against such Claims.
  - b. Westnet's liability for indemnification hereunder is in addition to any liability Westnet may have to City for a breach by Westnet of any of the provisions of this Contract. Under no circumstances shall the insurance requirements and limits set forth in this Agreement be construed to limit Westnet's indemnification obligation or other liability hereunder. The terms of this Contract are contractual and the result of negotiation between the Parties hereto. Accordingly, any rule of construction of contracts (including, without limitation, California Civil Code Section 1654) that ambiguities are to be construed against the drafting party, shall not be employed in the interpretation of this Contract.
  - c. An Indemnified Party shall promptly notify Westnet of any actual or prospective Claim for which indemnification is sought, upon actual knowledge of such Claim, provided, however, that failure to give such notice shall not relieve Westnet of its obligations under this Indemnification clause except to the extent that Westnet is materially prejudiced by such failure. In the event that any Claim is made, Westnet shall have the right and option to



undertake and control such defense of such action with counsel of its choice. Westnet shall select legal counsel reasonably acceptable to the Indemnified Party, which approval shall not be unreasonably withheld.

- d. Westnet's indemnification obligation hereunder shall survive the expiration or earlier termination of this Contract for a period of five (5) years following full execution of the Final System Acceptance Certificate (Exhibit E), or, if an Indemnified Claim is timely filed, until such Indemnified Claim is final. This provision is intended for the benefit of third party Indemnified Parties not otherwise a party to this Agreement.

## 16. INSURANCE.

- a. **COMMENCEMENT OF WORK.** Westnet shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the Customer. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the Customer of any material change, cancellation, or termination at least thirty (30) days in advance and a waiver of subrogation. All subcontractors shall provide the same insurance as required of Westnet herein. Westnet shall be responsible to collect and maintain all insurance certificates and endorsements from Subcontractors and shall ensure such insurance complies with this Contract. Customer shall be provided with a copy of the insurance certificates and endorsements and a certified copy of the policies upon request.
- b. **WORKERS COMPENSATION INSURANCE.** During the duration of this Contract, Westnet and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by law, if applicable.
- c. **INSURANCE AMOUNTS.** Westnet and all subcontractors shall maintain the following insurance in the amount and type for the duration of this Agreement:
  - i. Commercial general liability in an amount not less than \$1,000,000.00 per occurrence (claims made and modified occurrence policies are not acceptable); Insurance companies must be acceptable to Customer and have a Best's Guide Rating of A-, Class VII or better, as approved by the Customer.
  - ii. Automobile liability for all autos in an amount of \$1,000,000.00 combined single limit (claims made and modified occurrence policies are not acceptable); Insurance companies must be acceptable to Customer and have a Best's Guide Rating of A-, Class VII or better, as approved by the Customer.
- d. **ENDORSEMENTS AND OTHER REQUIREMENTS.**
  - i. An On-Going and Completed Operations Additional Insured Endorsement for the policy under section 16(c)(i) shall designate Customer, its officers, officials, employees, agents, and volunteers as additional insureds for liability arising out of work or operations performed by or on behalf of Westnet. Westnet shall provide to Customer proof of insurance and endorsement forms that conform to Customer's requirements, as approved by the Customer.
  - ii. An Additional Insured Endorsement for the policy under section 16(c)(ii) shall designate Customer, its officers, officials, employees, agents, and volunteers as additional insureds for automobiles, owned, leased, hired, or borrowed by Westnet. Westnet shall provide to Customer proof of insurance and endorsement forms that conform to Customer's requirements, as approved by the Customer.
  - iii. For any claims related to this Agreement, Westnet's insurance coverage shall be primary insurance as respects Customer, its officers, officials, employees, agents,



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and volunteers. Any insurance or self-insurance maintained by the Customer, its officers, officials, employees, agents, and volunteers shall be excess of Westnet's insurance and shall not contribute with it.

- iv. If Westnet maintains higher insurance limits than the minimums shown above, Westnet shall provide coverage for the higher insurance limits otherwise maintained by Westnet.

[SIGNATURE PAGE FOLLOWS]



**WESTNET®**

In witness whereof, the parties hereby execute this Contract on the dates set forth below.

**WESTNET:**  
**WESTNET, INC.**

**CUSTOMER:**  
**CITY OF GARDEN GROVE**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: Dawn Matheny

Name: Scott C. Stiles

Title: VP of Contracts

Title: City Manager

Date: \_\_\_\_\_

Date: \_\_\_\_\_



## **EXHIBIT A**

### **STATEMENT OF WORK**

#### **INTRODUCTION**

**Parties:** Westnet, Inc. (herein Westnet) and the Customer (herein Customer) have come together under this Statement of Work to provide and install a Westnet First-In Fire Station Alerting System(s) at the Customer's Fire Station No. 6, Address: 12232 West Street., Garden Grove, CA 92840. Any other parties participating in this project are deemed an agent of one of the aforementioned principal parties.

**Project Overview:** Westnet will provide and install a First-In® Fire Station Alerting System (herein System) for the Station, which alerts in-station personnel of an alert from Customer's Dispatch Center (herein Dispatch). The System consists of the equipment enumerated in Exhibit C. Westnet installation is limited to cabling and device install. All conduit, rough-in, electrical, networking and radio systems will be provided by the Customer at Customer's expense.

#### **EQUIPMENT AND INSTALLATION:**

**Description of Fire Station Alerting Systems:** Upon receipt of a proper alert from Dispatch, the First-In Master Control Unit (herein MCU) sends commands to the various First-In Smart Station Units (herein Units) and/or other non-Smart Station Units located throughout the fire Station. Depending upon Customer programming, the Units will emit an audible and/or visual indication of an incoming alert from Dispatch. The Units for this project are listed in Exhibit C (Contract Price and Deliverables).

#### **WESTNET RESPONSIBILITIES:**

##### Pre-Installation Responsibilities:

1. Approve a completed Westnet Configuration Form within thirty (30) days of the scheduled equipment shipment. Customer changes to the programming after approval may result in additional fees.
2. Build and ship the equipment to the requirements specified in Westnet Configuration Form.

##### Installation Responsibilities:

1. Installation of any Smart Station cabling, terminations and testing of the cable plant.
2. Install the System at the Station and verify proper connection of the radio to the MCU.
3. Provide a Westnet On-Site Factory Representative at the conclusion of the installation to certify the installation and provide operator training.

##### Post-Installation Responsibilities:

1. Perform start-up of the system and demonstrate system to the Customer for acceptance sign-off.
2. Provide technical telephone support to the Customer for a period of one year.
3. Provide as-built drawings depicting the location of Smart Station Units within the Station.
4. Provide on-site maintenance and the warranty services under the terms of Exhibit B.

#### **CUSTOMER RESPONSIBILITIES**

**Pre-Installation Responsibilities:**

1. Provide and install all conduit, rough-in and electrical systems.
2. Tender written approval of a completed Westnet Configuration Form thirty (30) days prior to scheduled equipment shipment.
3. Provide all radio and networking equipment necessary for integration with the MCU and Smart Station Units. The radio equipment includes, but is not limited to a properly operating radio base station, installed antenna and feedline lightening arrestor, that produces an acceptable level of signaling, as well as an acceptable level of Dispatch voice audio. An acceptable level of signaling shall be a minimum of 500 millivolts peak-to-peak of Dispatch audio and tone signaling audio.
4. For network alerted systems, provide Westnet with the Station IP Address, Subnet Mask and Gateway information one month prior to installation.
5. For network alerted systems, provide a properly operating Ethernet port and Local Area Network within the Station.
6. For network alerted systems, provide a properly operating Wide Area network that has sufficient capacity at maximum anticipated traffic to support all alerting functions.
7. Provide adequate space for the MCU and the MCU's Power Module or UPS. The space for these three devices must not be more than six (6) feet from the radio base station and a 110-volt outlet. Each power outlet must have proper polarity and grounding.
8. Provide a five-ohm earth ground circuit connected to the radio antenna lightening suppressing circuit.
9. Provide all Messengers and Power Module Assemblies (Part # SPC100028V), which consists of a Power Module and a UPS, with one 110-volt outlet within five (5) feet of the Power Module. The Power Module Assembly requires adequate ventilation to function properly and maintain the one-year warranty.
10. Provide a telephone system that has an analog paging audio port with 600-ohm balanced audio and a DC contact closure for telephone paging. Should audio feedback occur during paging, the Customer will need to provide and install a feedback eliminator.
11. Establish and maintain an operating 24/7 VPN for Westnet to connect to all fire stations that are equipped with the First-In Fire Station Alerting (First-In) equipment.
12. Plumber is required to install electric valve in gas line to stove. Pricing assumes each station's appliance has electric ignition, Westnet included power contactor installation in the electric power supply to stove. The only Westnet tested and accepted appliance controller natural gas valve is the ASCO Red Hat Normally Closed gas valve with any one of the following part numbers: 8215B060: 8215B050: 8215B030. The valve must be specified for 24V AC.

**Installation Responsibilities:**

1. Return a signed copy of the attached Delivery Verification Form (Exhibit A-1) upon receipt of the System. Return a signed copy of the attached Installation Verification Form (Exhibit A-2) upon installation of the System.
2. Should a discrepancy arise among Customer personnel regarding the placement or mounting methods, or other installation matters, there will be resolution of such discrepancy within





twenty-four (24) hours. If such resolution does not occur, Westnet may bill the Customer for any standby time until such discrepancy is resolved.

3. Provide a minimum of five (5) business days notice to the Westnet Project Manager or Westnet's Installation Company should the Customer need to postpone the scheduled installation. Provide a minimum of five days (5) days notice to Westnet should the Customer need to postpone or cancel the On-Site Supervisor trip. Compliance with the notice requirements noted above does not absolve the Customer of damages related to the cancellation or postponement. If the Customer has not met the requirements of Pre-Installation and Installation Responsibilities, and if Westnet is unable to reasonably continue the Work at another location, the Customer shall reimburse Westnet for standby time and travel expenses.
4. The Customer must notify Westnet of any areas known to contain asbestos. If during the installation process, Westnet suspects or encounters asbestos, the Customer will be required to drill all holes in the related area. Westnet shall have no liability to the Customer, its employees or to any other persons for any asbestos related claims, including, without limitation, removal or cleanup costs, loss of use, lost profits or personal injury or property damages (collectively the "asbestos claims").
5. Allow Westnet to bring a Scissor-Lift onto Customer premises if necessary. The Scissor-Lift will be used to aid in the installation of the equipment in apparatus bays and other high ceiling areas.
6. Bring the station operating circuit wiring to the location of the Control Remote for all devices desired to be activated by the Control Remote.
7. In the event that the Customer elects to purchase Satellites for the apparatus bay at any point in time, the Customer will provide any pendant mounting equipment for the apparatus bay and other high ceiling areas that exceed twelve (12) feet. While Westnet supplies a mounting device for each Satellite and Satellite Controller, the Customer must provide all mounting equipment and platforms necessary to meet the twelve (12) foot height restriction. For a period not to exceed ninety (90) days after installation of the System, the Customer can issue a separate purchase order for the purchase and installation of Satellites and Power Modules, if needed, in the apparatus bay. Westnet will hold the equipment pricing for the ninety (90) day period.
8. Provide any other support to Westnet to ensure successful installation and integration of the alerting Systems.
9. Participate in Acceptance Testing during the On-Site Factory Representative visit. A copy of the Acceptance Test Plan is in Exhibit E.
10. If deemed necessary by the Westnet, allow Westnet to install a Westnet-owned Performance Monitoring Computer in Dispatch. The computer is used to administer technical support and maintenance services. The computer will be returned to Westnet at the conclusion of the warranty period. The Customer will be responsible for all anti-virus and operating system updates.

**Post-Installation Responsibilities:**

1. Provide primary support for all alarm Systems concerns. The Customer will contact Westnet once it has completed primary troubleshooting and verified that a problem resides within the station alerting equipment.
2. The Customer will provide all maintenance of the First-In Fire Station Alerting Systems, unless the Customer purchases a Maintenance Plan from Westnet (see Exhibit G).



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3. Administer warranty service for any Customer-supplied equipment. Warranty services are performed at Westnet's Factory after the Customer removes and ships the equipment to the Factory for repair. No loaner or spare equipment will be provided under this Agreement.

**TRAINING:**

Operator Training: Westnet will provide one (1) hour of operator training for three shifts at the Station. The training will cover operation of the MCU and Smart Station Units during an alert sequence.

**EXCLUSIONS:**

1. Additional Equipment: There will be no additional equipment provided by Westnet as Exhibit C is a complete list of equipment to be provided under the Statement of Work. Westnet does not provide spare units to replace units at Westnet for warranty repair, unless provided for in a separate maintenance agreement. Should additional or spare equipment beyond the scope of this Statement of Work be desired, a separate quote and purchase order will be required. Prices for additional equipment will be based upon the Price List in effect at the time of the quote. Westnet will not be providing any two-way radios, two-way radio accessories, printers or routers to the Customer.
2. Post-Installation Equipment - Westnet does not warranty equipment provided under this Statement of Work should a party other than Westnet or Westnet's installation subcontractor install or integrate any non-Westnet equipment into the alerting or dispatch systems. An exception to this exclusion is the CAD interface and Customer's radio system.
3. Alerting Equipment Voice-chip or Programming Changes: Any changes in the text of the voice-chips or reprogramming to any units once the programming from the Westnet Configuration Form is complete will be a billable charge to the Customer, unless such change stems from a programming error by Westnet. The charge will consist of parts, labor, and any applicable shipping and taxes. The Customer must provide the labor, or hire Westnet for an additional charge, to remove and reinstall any reprogrammed voice-chips or units once the units leave the factory.
4. Services: Installation labor, repair labor, other on-site or engineering labor beyond the scope of this Statement of Work is excluded. Westnet will charge the current rate per hour, per man, plus expenses for work exceeding the scope of this Statement of Work. The labor rate after normal business hours and on weekends is the Off-Hours rate per hour, per man, plus expenses. Payment for such services is due within thirty (30) days. Should the Customer become delinquent in payment for such services, Westnet reserves the right to refuse service for both the services provided under this Statement of Work, as well as any other requests for service.
5. Computer Systems: Westnet and/or any Westnet-supplied equipment will not make a recommendation as to which apparatus or personnel assigned to an emergency call. Rather, Dispatch personnel, the CAD and/or any other Customer mechanism is responsible for equipment and personnel assignment.
6. Telephone Services: Payment for services and coordination involving the connection of any telephone lines to the station and dispatch shall be the responsibility of the Customer.
7. CAD or Other Equipment Upgrade: This Statement of Work does not include any upgrades to the Customer's CAD, dispatch equipment, radio systems or other equipment unless otherwise noted. Any on-site or technical support requested will be an additional fee.
8. Maintenance: Westnet will provide full on-site maintenance for the first year and for each subsequent year that the Customer purchases a maintenance plan.





9. Installation:

- a) Westnet understands that the term "optimal" is subjective. Although Westnet will attempt to place the Systems equipment in the Customer's desired locations, Westnet reserves the right to place the equipment in the most beneficial and safest location.
- b) Should Westnet be requested to provide installation services beyond the scope of this Statement of Work, a separate quote will be issued and a Customer purchase order will be required for such installation services.
- c) The Customer will be providing all conduits required by the electrical code that is necessary for installation of the Systems.

10. Limited Warranty: See Exhibit B.

11. CAD Operation: Should the CAD be unable to alert a properly functioning MCU, it is the responsibility of the Customer to correct the situation at the Customer's sole expense. Any work by Westnet necessary to troubleshoot the CAD system or modify the MCU post-production is not included in any pricing and will be an additional charge.

12. Interfaces: No interfaces are included in Westnet's pricing and are beyond the scope of this Statement of Work.

13. Other: Westnet makes no guarantee and has no responsibility for the performance of ancillary systems used in the alerting process, such as the CAD, the wired or wireless connectivity from Customer's Dispatch to the Station, Public Address and telephone paging systems, as well as devices connected to the Control Remote. The Customer has been advised that the alerting System may not function properly unless the ancillary systems are functioning correctly. With the proper inputs, the System will activate System lights, speakers, relays (Control Remotes), System Doorbells, Test and Emergency Buttons.

**CONCLUSION:**

- 1. Acceptance: Acceptance of this Statement of Work by the principal parties constitutes a final written expression of all the terms of the Statement of Work between Westnet and the principal parties and is a complete and exclusive statement of those terms. Any representations, promises, warranties or statements by Westnet's agents that differ in any way from the terms of this written Statement of Work shall be given no force or effect. WESTNET, INC. RESERVES THE RIGHT TO MAKE CHANGES TO THIS STATEMENT OF WORK UNTIL SUCH TIME THAT A CONTRACT HAS BEEN EXECUTED.



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**EXHIBIT A-1**

**DELIVERY VERIFICATION FORM\***

**First-In Fire Station Alerting Equipment**

The signature below serves as verification that the boxes with equipment listed for Station \_\_\_\_\_ in Exhibit C were delivered with no apparent damage.

\_\_\_\_\_  
Customer Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name & Title

(For partial deliveries, the following form shall be used.)

The signature below serves as verification that the following boxes with equipment listed for Station \_\_\_\_\_ in Exhibit C were delivered with apparent damage:

1. \_\_\_\_\_

3. \_\_\_\_\_

2. \_\_\_\_\_

4. \_\_\_\_\_

\_\_\_\_\_  
Customer Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name & Title

\* Print and execute one copy of this form for each station.



**EXHIBIT A-2**

**INSTALLATION VERIFICATION FORM\***

The signature below serves as verification that the Fire Station Alerting Equipment enumerated in Exhibit C, plus or minus the following mutually agreed upon changes, has been installed in a commercially reasonable manner and functions properly in the **System Test Mode**. Any punch-list items will be resolved prior to final System Acceptance.

€ A check in this box means that no equipment changes were made, and that the only equipment installed at the Fire Station is that which is listed in Exhibit C.

€ A check in this box means the following mutually agreed upon changes have been installed.

- |          |           |
|----------|-----------|
| 1. _____ | 6. _____  |
| 2. _____ | 7. _____  |
| 3. _____ | 8. _____  |
| 4. _____ | 9. _____  |
| 5. _____ | 10. _____ |

\_\_\_\_\_  
Customer Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name & Title

\* Print and execute one copy of this form for each station.



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## **EXHIBIT B**

### **WESTNET, INC. STANDARD LIMITED WARRANTY**

1. Westnet, Inc. ("Westnet") is providing its "Limited Warranty" covering the First-In products, parts, components and system being purchased by Customer under this Agreement (collectively, the "Products") as set forth in this Paragraph 1. When Westnet, or a certified Westnet installer installs the Product, this warranty begins upon first beneficial use of the Product by the Customer or when the installation is complete, whichever occurs first. In all other instances, this warranty commences upon shipment.
  - A. Westnet warrants exclusively to Customer that each Product sold hereunder will be free from defects in material and workmanship for a period of one (1) year from the date of delivery of the Product to Customer or, if installation is performed by Westnet or a subcontractor of Westnet, from the date of installation. If Westnet or a subcontractor of Westnet performs the installation, such installation service will be deemed to be part of the Product for purposes of this Limited Warranty and Westnet's liabilities under this Agreement. Any parts and cabling used in the installation of a Product are not covered by this Limited Warranty unless Westnet (and not Customer or a third party installation company) performs the complete installation. Any Product claimed by Customer to violate this Limited Warranty must be returned to Westnet's designated service center at the expense of Customer, provided that Westnet will first be given the opportunity, at its option and expense, to inspect the Product in its installed location and may elect to waive such return. Westnet will perform all warranty work at its service location only and not at the Customer's location, unless Westnet agrees, in its sole discretion, to undertake the warranty work at Customer's location. Westnet's sole obligation and Customer's exclusive remedy for any breach of this Limited Warranty will be the repair or replacement, at Westnet's option, of the defective Product. Any replacement or repaired Product will be covered by this Limited Warranty only for the remainder of the original warranty period. Any replacement or repaired Product may be made with new or reconditioned components and will be shipped to Customer at the expense of Westnet. Any replaced Product becomes the property of Westnet. If Westnet determines that such repair or replacement is not economical or feasible or such remedy fails of its essential purpose, Customer's exclusive alternate remedy and Westnet's sole obligation for any breach of this Limited Warranty will be the return to Customer of the purchase price paid to Westnet for the Product, provided Customer has returned the Product to Westnet.
  - B. This Limited Warranty applies only if Westnet's testing and examination of the Product discloses that the alleged defect or malfunction of the Product exists and was not caused by Customer's or any third person's misuse, negligence, improper installation or testing, or unauthorized attempts to open, repair or modify the Product, or by accident, fire, water, lightening, power cuts or outages, power or telephone line transients, other hazards, or acts of God, or by any other cause beyond the range of intended use in accordance with the Product's normal usage and Westnet's published instructions. This Limited Warranty will apply only if Customer notifies Westnet of the defect in writing not more than one (1) year after its delivery to Customer. This Limited Warranty does not cover physical damage to the surface of the Product after its delivery to Customer, including cracks or scratches on the LCD or outside casing. This Limited Warranty does not apply when the malfunction results from the use of this Product in conjunction with other products, or ancillary or peripheral equipment, and Westnet determines there is no fault with the Product itself. This Limited Warranty does not apply to any defect or malfunction of the Product due to any communications software or device Customer may use with the Product. Customer will promptly inspect all Products delivered to it. Any claim against Westnet under this Limited Warranty or otherwise for damages to or defects in the delivered Products that are observable in a reasonable visual inspection will be deemed waived unless the claim is made in writing to Westnet within thirty (30) days after such delivery.
  - C. EXCEPT FOR THIS EXPRESS LIMITED WARRANTY AND WESTNET'S STATUTORY WARRANTY OF GOOD TITLE, WESTNET MAKES NO WARRANTIES OR REPRESENTATIONS,



EITHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, REGARDING THE PRODUCTS COVERED HEREBY, INCLUDING (WITHOUT LIMITATION) ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, SATISFACTORY QUALITY, CORRESPONDENCE WITH DESCRIPTION, OR (SUBJECT TO PARAGRAPH 4) NONINFRINGEMENT OF PATENTS OR OTHER PROPRIETARY RIGHTS. NO EMPLOYEE, AGENT OR REPRESENTATIVE OF WESTNET IS AUTHORIZED TO MAKE ANY REPRESENTATION OR WARRANTY ON BEHALF OF WESTNET RELATING TO THE PRODUCTS EXCEPT TO THE EXTENT SPECIFICALLY STATED HEREIN. WESTNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF THE PRODUCTS.

**2. LIMITS ON LIABILITY.** EXCEPT AS EXPRESSLY PROVIDED IN PARAGRAPHS 1 AND 4, IN NO EVENT, WHETHER BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR ANY OTHER LEGAL THEORY, (A) WILL WESTNET BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR COST OF COVER ARISING OUT OF CUSTOMER'S SELECTION, ORDERING, PURCHASE, USE, RESALE OR DISTRIBUTION OF THE PRODUCTS COVERED HEREBY, OR OTHERWISE, EVEN IF WESTNET HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, NOR (B) WILL WESTNET'S TOTAL LIABILITY TO CUSTOMER AND ANY THIRD PARTIES WITH RESPECT TO ANY SPECIFIC PRODUCT AND ANY RELATED SERVICES EXCEED THE PURCHASE PRICE TO WESTNET FOR THAT PRODUCT AND SUCH SERVICES. SUCH DAMAGES THAT WESTNET WILL NOT BE LIABLE FOR INCLUDE, BUT ARE NOT LIMITED TO: LOSS OF PROFITS, SAVINGS OR REVENUE; LOSS OF USE OF A PRODUCT OR ANY ASSOCIATED EQUIPMENT; COST OF CAPITAL; COST OF ANY SUBSTITUTE GOODS, EQUIPMENT, FACILITIES OR SERVICES; DOWNTIME; AND, EXCEPT AS PROVIDED IN PARAGRAPH 4, THE CLAIMS OF THIRD PARTIES INCLUDING CUSTOMER'S EMPLOYEES OR AGENTS AND ANY PERSONS TO WHOM CUSTOMER PROVIDES SERVICES.

**3. FORCE MAJEURE, SHORTAGES AND OFFSETS.** Westnet will not be liable for loss or damage of any kind resulting from any delay in delivery or failure to supply ordered Products or otherwise carry out its obligations under this Agreement due to causes beyond its reasonable control, and no such event will relieve Customer of its obligations to make payments for other deliveries made when due under this Agreement. Such causes may include, but shall not be limited to, acts of God, the elements, acts or omissions of Customer, carriers, suppliers to Westnet or civil or military authorities, fires, labor disputes and other inability of Westnet to obtain necessary labor, materials or supplies from usual sources. If temporarily excused from performance under this Agreement by any such circumstances, Westnet shall resume its performance as soon as is reasonably feasible. Westnet reserves the right, in its sole judgment and without liability to Customer, reasonably to allocate its available production capacity and Product inventories as may be necessary or equitable in the event of any shortages of production capacity or Products at any time. Westnet may offset against any amounts owed by Westnet to Customer under this Agreement or otherwise any credits or amounts that are owed by Customer to Westnet under this Agreement or otherwise.

**4. INFRINGEMENT.** Westnet agrees to defend Customer against, and pay any damages awarded against Customer and direct expenses, including attorneys' fees, reasonably incurred by Customer (but excluding any lost revenues, lost profits or other consequential economic damages of Customer) as a result of, any action brought against Customer, if and to the extent the action is based on a valid claim that any Product delivered to Customer under this Agreement infringes another person's patent, copyright, trade secret or trademark. Westnet's obligations under this paragraph will be conditioned upon Customer promptly notifying Westnet in writing of the existence of any such action, giving Westnet full authority to conduct the defense and settlement of the action, at Westnet's expense and with counsel of Westnet's selection, and cooperating fully with Westnet and such counsel. If any Product becomes, or in Westnet's opinion is likely to become, the subject of an action for such infringement, Westnet may procure for Customer the right to continue using the Product or replace or modify it to make it noninfringing, provided such replacement or modification does not affect the performance or value of the Product to Customer in a materially adverse manner. Alternatively, Westnet may return to Customer the purchase price paid to Westnet for such Product and Customer shall return the Product to Westnet at Westnet's expense. Westnet will not have liability for, and Customer will defend Westnet against, and pay any damages awarded against Westnet and direct expenses, including attorneys' fees, reasonably incurred by Westnet (but excluding any lost revenues, lost



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profits or other consequential economic damages of Westnet) as a result of, any action is brought against Customer or Westnet, if and to the extent that the action is based on a valid claim that Westnet's compliance with Customer's design or specifications for a Product or Customer's use or combination of the Product with any material or process not acquired from Westnet (if the infringement would not have resulted from use of the Product without such material or process) infringes another person's patent, copyright, trade secret or trademark. The foregoing states Westnet's entire liability with respect to any infringement of patents, copyrights, trade secrets, trademarks or other proprietary rights relating to the Products.

**5. INDEMNIFICATION.** Subject to Paragraphs 1 and 4, Customer agrees to indemnify, defend and hold harmless Westnet against and from any claims, damages, losses, expenses (including attorneys' fees) and liabilities incurred by Westnet as a result of acts or omissions of Customer and its affiliates, employees or subcontractors or in connection with Customer's installation or use of a Product or its other activities.

**6. GOVERNING LAW.** This Agreement will be governed by the laws of the State of California, U.S.A., excluding their conflicts of laws principles. The United Nations Convention of Contracts for the International Sale of Goods is hereby excluded in its entirety from application to this Agreement.

**7. SEVERABILITY.** Any provision of this Agreement that is prohibited or unenforceable in any jurisdiction shall be ineffective to the extent of such prohibition or unenforceability without invalidating any other provisions of this Agreement, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction.





## **EXHIBIT C**

### **CONTRACT PRICE & DELIVERABLES**

**Project: Garden Grove Fire Station # 6 First-In Alerting Smart Station**

(Quote ID # Q-04055-C8V2)

**Description:** This is a quote for First-In Alerting system including installation, one year technical support, and on-site warranty. Pricing assumes installation will be done in one trip. If station is not ready, a \$500 return trip charge will be assessed for each occurrence. Client is responsible for all network connectivity between dispatch and station. Client is responsible to have the network equipment within 6 feet of the Master Control Unit location. Quote does not include conduit of more than 20 feet, if required. Customer to provide VPN access to Westnet for remote adjustments and support.

**Clarifying Comments:** Pricing includes prevailing wage. Client agrees to pay additional sales tax should the sales tax rate change.

Product ID	Product	QTY	Price	Sub Total
DLSP	MCU Data Line Surge Protector	1.00	\$95.00	\$95.00
FIN-AUX-L01	First-In MCU Auxiliary Module Lite	1.00	\$635.00	\$635.00
FIN-Eth-T10	Ethernet Data Activated First-In Type 10 MCU	1.00	\$7,395.95	\$7,395.95
SCR26-24VC5	Control Remote (each controls up to 8 functions)	1.00	\$1,175.95	\$1,175.95
SHPA150	High Power Paging Audio Module (includes one speaker)	1.00	\$1,495.00	\$1,495.00
SHPA150-D	High Power Paging Audio Module (includes two speakers)	1.00	\$2,175.49	\$2,175.49
SPC28-HS-1K2PS	Power Module w/ Hub & Spoke Controller, UPS & Dual Power Supplies	1.00	\$3,194.38	\$3,194.38
SPC28-HSL-1K2PS	Power Module w/ Dual Mode, UPS & Dual Power Supplies	1.00	\$3,194.38	\$3,194.38
SSAT	Satellite (driven off Satellite Controller)	13.00	\$295.00	\$3,835.00
SSATKIT-TBD	Satellite Mounting Kit - TBD	28.00	\$48.00	\$1,344.00
SSAT-M	Satellite Controller	15.00	\$599.98	\$8,999.70
SS-OSA	Outside Speaker Audio Module (includes one speaker)	2.00	\$599.98	\$1,199.96
SS-TIM-01	Telephone Interface Module	1.00	\$1,199.95	\$1,199.95
SS-TTMR-M	Turnout Timer (Medium)	1.00	\$825.00	\$825.00
	Lift Rental	1.00	\$900.00	\$900.00
SDBS1	Doorbell Button	1.00	\$225.00	\$225.00
SS-DVCS	Digital Volume Controller	1.00	\$225.00	\$225.00

**NOTES:**

1. In the event that taxes, other than sales tax apply to the purchase of this equipment, said taxes will be paid by the customer.
2. Quote is based on a properly working and installed CAD, radio system(s), station radio(s) and does not include costs for repair or modifications of the CAD, radio system(s), or station radio(s).
3. Any equipment drawings included with this quote are for quoting purposes only and are not to be used as working drawings unless such drawings are labeled "Installation Drawings". See attached Limited Warranty.

Equipment Total	\$38,114.76
Install Supplies	\$2,195.00
Total Tax (7.7500000000 %)	\$3,124.01
Station Equipment Install	\$25,760.00
One Year Toll Free Technical Support	\$760.00
On Site Warranty	\$750.00
Project Coordination	\$1,850.00
<b>Total Amount</b>	<b>\$72,553.77</b>

**EXHIBIT D****WESTNET PAYMENT SCHEDULE FOR EQUIPMENT AND INSTALLATION****Summary of Project Costs**

Description	Total Project
Garden Grove First-In Altering Smart System for Fire Station No. 6	\$72,553.77

	PROJECT MILESTONE	EXHIBIT	PROJECT COST %	INVOICE AMOUNT
1	Pre-Production / Contract Signature a) System Layout / Design b) Submittals, Equip Engineering c) Custom Programming	n/a	40%	\$29,021.51
2	Due Upon Equipment Delivery	Exhibit A-1	25%	\$18,138.44
3	Due Upon System Installation	Exhibit A-2	25%	\$18,138.44
4	Due Upon Final System Acceptance	Exhibit F	10%	\$7,255.38

**Total Amount: \$72,553.77**

Westnet may invoice and the Customer agrees to pay upon satisfactory completion of each project milestones listed above.

If payment is not received within thirty (30) days from the date of invoice, a late fee of one and a half percent (1.5%) per month of the unpaid balance will charged and immediately due.





## **EXHIBIT E**

### **ACCEPTANCE TEST PLAN**

**OBJECTIVE:** The purpose of completing this Acceptance Test Plan is to achieve "System Acceptance" by demonstrating to the Customer that the installed fire station alerting system ("System") equipment is operational and properly performs the function specified herein. Upon successful execution of this ATP, the System will have achieved "System Acceptance". Minor omissions or variances in the System that do not materially impair the operation of the System as a whole will not postpone System Acceptance, but will be corrected according to a mutually agreed upon schedule. In the event that a part of the System does not pass the ATP, the System will be re-tested when Westnet determines that a corrective action has been taken to ensure proper operation. Final System Acceptance will occur after System Acceptance and when all deliverables and other work have been completed. When Final System Acceptance occurs, the parties will promptly memorialize this final event by so indicating on the Final System Acceptance Certificate.

**SCOPE:** The scope of this ATP is limited to the System supplied by Westnet, Inc. It does not include any other equipment or systems upon which the alerting system, once in use, relies for proper activation and function (i.e. the Customer's CAD, radio, network and/or electrical systems). The failure or unavailability of these other systems during the ATP shall not affect the outcome of this ATP, nor shall it affect the System Acceptance and subsequent Final System Acceptance of the System.

**TEST SCHEDULE:** Westnet and the Customer will conduct the ATP at a mutually agreed-upon time and date once Westnet informs the Customer that the System is ready for acceptance testing.

**FIRE STATION METHODOLOGY:** The ATP will test devices that, operationally, are activated by Dispatch, as well as devices that are not activated by Dispatch, but rather the fire station crew.

1. Data / Network Activation Operation - This section tests/simulates a test of a network-based alert of the station from Dispatch. Data sequences assigned to the fire station zones shall be applied to the Ethernet port of the Master Control Unit using the Alerting Platform or a computer equipped with the First-In API. The alerting response from the alerting system shall announce the specific unit(s) associated with the alerted and audio distribution shall activate all areas associated with the zone alerted. Once the zone is activated, the pre-announcement will announce the units alerted, nature of the call, and other preannouncement information detailed in the ZIR signoff sheet. After the preannouncement is complete, the dispatch audio will be heard throughout the station speakers.

<input type="checkbox"/>	Pass
<input type="checkbox"/>	N/A
<input type="checkbox"/>	Fail

Notes:

2. Radio Activation Operation – This section tests a radio-activated alert of the station from Dispatch, more specifically the Radio Interface Controller (RIC)'s activation of a station's Master Control Unit (MCU). This test will utilize First-In RIC's alert signaling on the customer's radio system

- A. Test of All-Call. This test will activate the "All-Call" zone in every station. Successful performance of this test requires All-Call activation from the Alerting Platform User Application, as well as All-Call activation from the manual RIC keypad. Once the zone is activated, the pre-announcement will announce the All-Call message and the dispatch audio is heard throughout the station speakers.

<input type="checkbox"/>	Pass
<input type="checkbox"/>	N/A
<input type="checkbox"/>	Fail

Notes:



- B. Test of Specific Zones in a Designated Station. This test will activate a specific zone (i.e. Engine) in a Designated Station. Step 1 of this test requires the proper station to be activated both from the Alerting Platform User Application, as well as the manual RIC keypad. Step 2 of this test requires that the specific zone selected be activated. Once the zone is activated, the pre-announcement will announce unit(s) assigned to the call and the dispatch audio is heard throughout the station speakers.

☐  
☐  
☐

Pass  
N/A  
Fail

Notes:

3. Turnout Timer Operation - This section tests the activation of the Turnout Timer(s). Upon activation of the Master Control Unit, the Timer(s) will begin to count up on a per-second basis. The Timer(s) will continue to count up and will automatically shut down when the Master Control Unit send the shutdown command to the station.

Item Name:	Pass	Fail	Notes:
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

4. Automatic Backup Alerting - This section tests the automatic failover from the IP system to the RIC for a radio-based alert. The RIC shall automatically be activated from the First-In Alerting Platform (FiAP) as soon as the FiAP detects that the primary alert was not successful. Without any action required on the part of the dispatcher, the RIC will send the alert to the proper station and units assigned to the call.

☐  
☐  
☐

Pass  
N/A  
Fail

Notes:

5. Manual Backup Alerting - Using the manual keypad of the RIC, the Customer selects the station and units to activate in the selected fire station. The station MCU activates the appropriate station and unit(s).

☐  
☐  
☐

Pass  
N/A  
Fail

Notes:

Customer Representative

Date

Printed Name & Title



**WESTNET**

**EXHIBIT F**

**FINAL SYSTEM ACCEPTANCE CERTIFICATE**

The signature below serves as verification that the System has passed Acceptance Test Plan and that all deliverables and work have been completed.

\_\_\_\_\_  
Customer Representative

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name & Title



## **EXHIBIT G**

### **MAINTENANCE AND SUPPORT STATEMENT OF WORK**

#### **1. SCOPE OF SERVICES**

Westnet will provide comprehensive turn-key maintenance and support services for the installed First-In Fire Station Alerting System, ensuring all components are operating at peak performance according to Westnet's original manufacturing specifications. The Services to be provided under this agreement include the following:

- One year, 24/7 toll-free Technical Support and On Site for all equipment and software
- Repair and/or replacement of damaged units at no cost (excludes UPS batteries)
- Spare equipment delivered the next business day (and Saturday's where available)
- Remote diagnostic analysis and uploads, software upgrades

#### **2. RESPONSE TIMES**

Response and issue resolution times shall be determined in accordance with the Priority Level and Descriptions set forth in the following table. The response time shall commence from the time the Customer requests service or notifies Westnet of problems with the System by contacting Westnet's Call Center ("Notification"). Issue resolution may include phone support, VPN remote access, or on-site service (for issues not resolved via phone support or remote access).

**Westnet Technical Support: (800) 807-1700**  
**Office Hours: 8:00 – 5:00 PST, Monday – Friday**

Priority Levels	Hours / Days	Description
1	24/7/365 Including Holidays  3-6 Hour Response	This priority level represents a significant issue that results in the inability to use the dispatching and/or alerting systems. <ul style="list-style-type: none"><li>• Any reported trouble with Westnet-supplied Dispatch System.</li><li>• Station reports that it is not receiving any form of an alert or there is no audio in a fire station.</li><li>• Other failures that render the fire station MCU and more than five audio transmitting devices unusable.</li></ul>
2	8:00 – 5:00 PST, Monday – Friday  2-Business- Day Response	This priority level represents a moderate issue that restricts normal use of the dispatching and/or alerting systems. <ul style="list-style-type: none"><li>• Any non-essential Dispatch Project or Fire Station device reported inoperable.</li><li>• Reports of receiving other stations' or companies' alerts.</li><li>• Requests to increase fire station volume levels within fire department-approved parameters.</li></ul>
3	8:00 – 5:00 PST, Monday – Friday  3-Business- Day Response	This priority level represents minor or non-emergency issues that do not restrict normal use of the dispatching and/or station alerting systems. <ul style="list-style-type: none"><li>• Requests to decrease volume levels within fire department-approved parameters</li><li>• Add additional equipment, request programming, or voice-chip changes.</li><li>• Requests for additional training.</li><li>• Other non mission-critical matters in the dispatch centers or fire stations</li></ul>



**WESTNET**

### **3. WESTNET'S RESPONSIBILITIES**

Westnet shall:

- A. Provide Westnet-owned spare equipment while a System component is returned to Westnet for repair or replacement.
  - 1. Any Westnet-owned spare equipment parts provided under this Agreement are the property of Westnet. Any damage to Westnet's spare equipment parts is not covered under this Scope of Services and the Customer shall pay for the repair or replacement of the spare equipment parts.
  - 2. Westnet may service replaceable parts, by way of new or remanufactured replacement parts to Customer on an exchange basis. Upon receipt by the Customer of the replacement part, the original part becomes the property of Westnet, and shall be returned by Customer to Westnet. The Customer shall pay Westnet the full retail value of the replacement part if Westnet provides notice to the COTR to return the original part and Westnet does not receive the original part within thirty (30) days after replacement part installation.
- B. The Customer will not make modifications to the System without obtaining approval from Westnet in writing.
- C. Upon request, Westnet shall provide a written quote for additional work not specifically identified in this Agreement. Such work could include, but is not limited to, additions and installation of new equipment, relocation of existing equipment, upgrades (not part of Westnet standard releases) and enhancements, and other system related goods and services. If the Customer decides to proceed with the work, a new purchase order will be issued exclusively for the work to be ordered.

### **4. CUSTOMER'S RESPONSIBILITIES**

The Customer shall:

- A. **SERVICE CALLS:** The Customer will notify Westnet of any problems with the System by calling the Westnet Systems Group at 1-800-807-1700 (Westnet's call center).
- B. Provide and maintain an operating 24/7 VPN for the duration of the Agreement. The VPN shall allow Westnet to connect to all fire stations that are equipped with the First-In Fire Station Alerting (First-In) equipment. The VPN must be operating, and the Customer must allow Westnet to test the VPN prior to the commencement of this Agreement.
- C. Ensure that the Westnet monitor computer in the Dispatch Center (if provided) has 24/7 access to the VPN and to all Customer fire stations. The Customer will return the Westnet monitor computer to Westnet at the conclusion of this Agreement and any additional extensions.
- D. Provide the make and model number of the fire station radio the System is connected to for the source of dispatch audio. If there are any connections to this radio other than the outside antenna and the power source, the Customer will provide a diagram showing the method of connection, connector pins used, signals obtained from the radio and signals sent to the radio by the fire station equipment.
- E. Provide the name, 24-hour telephone number and position of responsible party that can be contacted about each station's radio communication, public address, CAD, and network equipment.
- F. Provide Westnet with either code-access to the stations or an escort that is available 24/7 and within one (1) hour's of notice of an on-site visit.
- G. If applicable, provide the make and model number of fire station amplifier, type of connectors used by fire alerting input, input impedance and the necessary audio level to drive station amplifier.



- H. Provide a description of station control circuits (e.g., lighting, door openers, gas shut-off) and the number of circuits to be controlled by the Control Remote.
- I. Ensure that the MCU at each station is at all times plugged into the Westnet supplied on-line fulltime UPS.
- J. Ensure that the MCU at each station is at all times plugged into the First-In Radio Isolation Unit. Westnet will exclude from this Agreement the repair of any equipment not properly connected to the Radio Isolation Unit.
- K. Ensure that the radio antenna and lightning arrestor is installed, is installed per current engineering standards and that all lightning protection equipment is connected to a 5-ohm earth ground by a #6 or larger cable not exceeding eight (8) feet in length between the 5-ohm earth ground and the protected equipment.
- L. Notify Westnet prior to making any change in any equipment connected to the fire station System.

## **5. FAILURE TO CORRECT ISSUES**

Customer shall be entitled to receive a pro rata reduction of the annual maintenance fee ("Service Credit"), up to a maximum of 100% of such fee for the current annual maintenance period, for each 24 hour period during which a Priority Level 1 issue is not corrected 48 hours ("Service Outage") following the report of the issue, provided, however, such reductions shall not apply where the cause of the issue is not within Westnet's control, which includes without limitation, any force majeure such as explosion, utility failures, natural disasters, water, acts of God, strikes or labor disputes, riots, war, civil disorder, acts of regulations of governmental bodies, court orders, legislative or governmental actions, acts of civil or military authorities, telecommunications network outages, third party communications and issues caused by Customer's acts or omissions or those of third parties outside of Westnet's control.

Service Credits will not entitle Customer to any refund or other payment from Westnet. Service Credit(s) may not be transferred or applied to any other Customer account. The Service Credit (if eligible) set forth herein is Customer's sole and exclusive remedy.

To be eligible to receive a Service Credit, Customer must submit a written request by email to Westnet at [WSG@westnet-inc.com](mailto:WSG@westnet-inc.com) within three (3) days of the alleged Service Outage.

**Insurance Requirements  
Westnet Inc.**

**1. Insurance Requirements.**

- 1.1 COMMENCEMENT OF WORK. CONTRACTOR shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the CITY. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the CITY of any material change, cancellation, or termination at least thirty (30) days in advance.
- 1.2 WORKERS COMPENSATION INSURANCE. For the duration of this Agreement, CONTRACTOR and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by law, if applicable. The insurer shall waive its rights of subrogation against the CITY, its officers, officials, agents, employees, and volunteers.
- 1.3 INSURANCE AMOUNTS. CONTRACTOR shall maintain the following insurance for the duration of this Agreement:
- (a) Commercial general liability in an amount not less than \$1,000,000 per occurrence; **(claims made and modified occurrence policies are not acceptable)**; Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
  - (b) Automobile liability in an amount not less than \$1,000,000 combined single limit; **(claims made and modified occurrence policies are not acceptable)**; Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.

An Additional Insured Endorsement, **ongoing and completed operations**, for the policy under section 1.3 (a) shall designate CITY, its officers, officials, employees, agents, and volunteers as additional insureds for liability arising out of work or operations performed by or on behalf of the CONTRACTOR. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to city's requirements, as approved by the CITY.

An Additional Insured Endorsement for the policy under section 1.3 (b) shall designate CITY, its officers, officials, employees, agents, and volunteers as additional insureds for automobiles owned, leased, hired, or borrowed by the CONTRACTOR. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.



An Additional Insured Endorsement for the policy under section 1.3 (c) shall designate CITY, its officers, officials, employees, agents, and volunteers as additional insureds under the excess liability policy. CONTRACTOR shall provide to CITY proof of insurance stating the excess liability policy follows form, endorsement forms, and the schedule of underlying policies with policy numbers, that conform to CITY's requirements, as approved by the CITY.

For any claims related to this Agreement, CONTRACTOR's insurance coverage shall be primary insurance as respects CITY, its officers, officials, employees, agents, and volunteers. Any insurance or self-insurance maintained by the CITY, its officers, officials, employees, agents, or volunteers, for this contract and all public agencies from whom permits will be obtained and their directors, officers, agents, and employees, as determined by the CITY shall be excess of the CONTRACTOR's insurance and shall not contribute with it.

If CONTRACTOR maintains higher insurance limits than the minimums shown above, CONTRACTOR shall provide coverage for the higher insurance limits otherwise maintained by the CONTRACTOR





WESTN-1

OP ID: RA

## CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

06/18/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Stockdale Ins (Fresno) LICENSE #0C26131 PO Box 5537 Fresno, CA 93755 Hadley Littlewood <i>Ronald A</i> <i>ronalda@stockdaleinsurance.com</i>	661-327-3321	CONTACT NAME: PHONE (A/C, No, Ext): 661-327-3321 FAX (A/C, No): 661-327-3490 E-MAIL ADDRESS: kristinc@stockdaleinsurance.com
INSURED Westnet Inc 15542 Chemical Lane Huntington Beach, CA 92649		INSURER(S) AFFORDING COVERAGE INSURER A: AIX Specialty Insurance Co <i>A, XV</i> NAIC # 12833 INSURER B: National Union Fire Insurance <i>A, XV</i> 19445 INSURER C: Travelers Casualty Ins Co <i>A, XV</i> 19046 INSURER D: Hudson Insurance Company <i>A, XV</i> 25054 INSURER E: Granite State Insurance <i>A, XV</i> 23809 INSURER F:

## COVERAGES

## CERTIFICATE NUMBER:

## REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR	TYPE OF INSURANCE	ADD	SUBR	POLICY NUMBER	POLICY EFF	POLICY EXP	LIMITS
LIB		INSR	WVD		(MM/DD/YYYY)	(MM/DD/YYYY)	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> <input type="checkbox"/> GEN'L AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	Y	Y	LIKA876342-02	03/15/2018	03/15/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 50,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
C	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY	Y	Y	BA-1C324039	07/30/2017	07/30/2018	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0			EBU019230157	03/15/2018	03/15/2019	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 2,000,000 Following Form
E	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	065-25-7102 (CA) 065-25-7101 (AOS)	04/01/2018 04/01/2018	04/01/2019 04/01/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	Professional			EMT 12165 6	08/08/2017	08/08/2018	Aggregate Occurrence \$ 2,000,000 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

The "City" its elected officials, employees, agents and volunteers are listed as additional insured for GL and AI per the attached company blanket. Additional insured endorsements as required by written contract. Waivers of subrogation in favor of "The City" are attached. 30 days written notice of cancellation except for non payment 10 days notice

## CERTIFICATE HOLDER

## CANCELLATION

PROOF OF  City of Garden Grove Risk Management 11222 Acacia Parkway Garden Grove, CA 92840	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE <i>Ronald A. Anderson</i>
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ACORD 25 (2016/03)

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Reviewed and approved as to insurance language  
and requirements.

*Neidra M. Jany*  
Risk Management  
6-18-18  
Page 85 of 496

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS – AUTOMATIC STATUS WHEN  
REQUIRED IN CONSTRUCTION AGREEMENT WITH YOU**

This endorsement modifies insurance provided under the following:

**COMMERCIAL GENERAL LIABILITY COVERAGE PART**

A. Section II – Who Is An Insured is amended to include as an additional insured any person or organization for whom you are performing operations when you and such person or organization have agreed in writing in a contract or agreement that such person or organization be added as an additional insured on your policy. Such person or organization is an additional insured only with respect to liability for "bodily injury", "property damage" or "personal and advertising injury" caused, in whole or in part, by:

1. Your acts or omissions; or
2. The acts or omissions of those acting on your behalf;

in the performance of your ongoing operations for the additional insured.

However, the insurance afforded to such additional insured:

1. Only applies to the extent permitted by law; and
2. Will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

A person's or organization's status as an additional insured under this endorsement ends when your operations for that additional insured are completed.

B. With respect to the insurance afforded to these additional insureds, the following additional exclusions apply:

This insurance does not apply to:

1. "Bodily injury", "property damage" or "personal and advertising injury" arising out of the rendering of, or the failure to render, any professional architectural, engineering or surveying services, including:

- a. The preparing, approving, or failing to prepare or approve, maps, shop drawings, opinions, reports, surveys, field orders, change orders or drawings and specifications; or
- b. Supervisory, inspection, architectural or engineering activities.

This exclusion applies even if the claims against any insured allege negligence or other wrongdoing in the supervision, hiring, employment, training or monitoring of others by that insured, if the "occurrence" which caused the "bodily injury" or "property damage", or the offense which caused the "personal and advertising injury", involved the rendering of or the failure to render any professional architectural, engineering or surveying services.

**2. "Bodily injury" or "property damage" occurring after:**

- a. All work, including materials, parts or equipment furnished in connection with such work, on the project (other than service, maintenance or repairs) to be performed by or on behalf of the additional insured(s) at the location of the covered operations has been completed; or
- b. That portion of "your work" out of which the injury or damage arises has been put to its intended use by any person or organization other than another contractor or subcontractor engaged in performing operations for a principal as a part of the same project.

**C. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:**

The most we will pay on behalf of the additional insured is the amount of insurance:

- 1. Required by the contract or agreement you have entered into with the additional insured; or
- 2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

POLICY NUMBER: LIKA876342 02

COMMERCIAL GENERAL LIABILITY  
CG 20 37 04 13

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS – COMPLETED OPERATIONS**

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

**SCHEDULE**

Name Of Additional Insured Person(s) Or Organization(s)	Location And Description Of Completed Operations
Where required in a written contract or agreement, provided the written contract or agreement is executed prior to the date of any loss.	
Information required to complete this Schedule, if not shown above, will be shown in the Declarations.	

**A. Section II – Who Is An Insured** is amended to include as an additional insured the person(s) or organization(s) shown in the Schedule, but only with respect to liability for "bodily injury" or "property damage" caused, in whole or in part, by "your work" at the location designated and described in the Schedule of this endorsement performed for that additional insured and included in the 'products-completed operations hazard'.

However:

1. The insurance afforded to such additional insured only applies to the extent permitted by law; and
2. If coverage provided to the additional insured is required by a contract or agreement, the insurance afforded to such additional insured will not be broader than that which you are required by the contract or agreement to provide for such additional insured.

**B. With respect to the insurance afforded to these additional insureds, the following is added to Section III – Limits Of Insurance:**

If coverage provided to the additional insured is required by a contract or agreement, the most we will pay on behalf of the additional insured is the amount of insurance:

1. Required by the contract or agreement; or
2. Available under the applicable Limits of Insurance shown in the Declarations;

whichever is less.

This endorsement shall not increase the applicable Limits of Insurance shown in the Declarations.

POLICY NUMBER: LIKA876342-02

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**PRIMARY NON-CONTRIBUTORY ENDORSEMENT**

This endorsement modifies Insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

When required by written contract or agreement, the insurance provided by endorsement \*See Below is primary insurance and we will not seek contribution from any other insurance available to the person or organization covered as additional insured hereunder unless the other insurance is provided by a contractor, other than you, for the same operations and job location. Then we will share that other insurance by the method described in **SECTION IV – CONDITIONS, Paragraph 4. Other Insurance subparagraph c. Method Sharing.**

ALL OTHER TERMS, CONDITIONS, AND EXCLUSIONS REMAIN UNCHANGED.

CG2033, CG2037 & CG2404

POLICY NUMBER: LIKA876342 02

COMMERCIAL GENERAL LIABILITY  
CG 24 04 05 09

## WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART  
PRODUCTS/COMPLETED OPERATIONS LIABILITY COVERAGE PART

### SCHEDULE

**Name Of Person Or Organization:**

Where required in a written contract or agreement,  
provided the written contract or agreement is executed  
prior to the date of any loss.

Information required to complete this Schedule, if not shown above, will be shown in the Declarations.

The following is added to Paragraph 8. **Transfer Of  
Rights Of Recovery Against Others To Us of  
Section IV – Conditions:**

We waive any right of recovery we may have against  
the person or organization shown in the Schedule  
above because of payments we make for injury or  
damage arising out of your ongoing operations or  
"your work" done under a contract with that person  
or organization and included in the "products-  
completed operations hazard". This waiver applies  
only to the person or organization shown in the  
Schedule above.



THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

## AUTO COVERAGE PLUS ENDORSEMENT

This endorsement modifies insurance provided under the following:

### BUSINESS AUTO COVERAGE FORM

With respect to coverage provided by this endorsement, the provisions of the Coverage Form apply unless modified by the endorsement.

**GENERAL DESCRIPTION OF COVERAGE** – This endorsement broadens coverage. However, coverage for any injury, damage or medical expenses described in any of the provisions of this endorsement may be excluded or limited by another endorsement to the Coverage Part, and these coverage broadening provisions do not apply to the extent that coverage is excluded or limited by such an endorsement. The following listing is a general coverage description only. Limitations and exclusions may apply to these coverages. Read all the provisions of this endorsement and the rest of your policy carefully to determine rights, duties, and what is and is not covered.

- |   |   |
|---|---|
| <b>A. BLANKET ADDITIONAL INSURED</b>                                  | <b>H. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT – INCREASED LIMIT</b> |
| <b>B. EMPLOYEE HIRED AUTO</b>   | <b>I. WAIVER OF DEDUCTIBLE – GLASS</b>                                  |
| <b>C. EMPLOYEES AS INSURED</b>  | <b>J. PERSONAL EFFECTS</b>  |
| <b>D. SUPPLEMENTARY PAYMENTS – INCREASED LIMITS</b>                   | <b>K. AIRBAGS</b>   |
| <b>E. TRAILERS – INCREASED LOAD CAPACITY</b>                          | <b>L. AUTO LOAN LEASE GAP</b>   |
| <b>F. HIRED AUTO PHYSICAL DAMAGE</b>                                  | <b>M. BLANKET WAIVER OF SUBROGATION</b>                                 |
| <b>G. PHYSICAL DAMAGE – TRANSPORTATION EXPENSES – INCREASED LIMIT</b> |   |

#### A. BLANKET ADDITIONAL INSURED

The following is added to Paragraph A.1., **Who Is An Insured**, of **SECTION II – LIABILITY COVERAGE**:

Any person or organization who is required under a written contract or agreement between you and that person or organization, that is signed and executed by you before the "bodily injury" or "property damage" occurs and that is in effect during the policy period, to be named as an additional insured is an "insured" for Liability Coverage, but only for damages to which this insurance applies and only to the extent that person or organization qualifies as an "insured" under the **Who Is An Insured** provision contained in Section II.

#### B. EMPLOYEE HIRED AUTO

- The following is added to Paragraph A.1., **Who Is An Insured**, of **SECTION II – LIABILITY COVERAGE**:

An "employee" of yours is an "insured" while operating a covered "auto" hired or rented under a contract or agreement in that "employee's" name, with your permission, while

performing duties related to the conduct of your business.

- The following replaces Paragraph b. in B.5., **Other Insurance**, of **SECTION IV – BUSINESS AUTO CONDITIONS**:

b. For **Hired Auto Physical Damage Coverage**, the following are deemed to be covered "autos" you own:

- (1) Any covered "auto" you lease, hire, rent or borrow; and
- (2) Any covered "auto" hired or rented by your "employee" under a contract in that individual "employee's" name, with your permission, while performing duties related to the conduct of your business.

However, any "auto" that is leased, hired, rented or borrowed with a driver is not a covered "auto".

#### C. EMPLOYEES AS INSURED

The following is added to Paragraph A.1., **Who Is An Insured**, of **SECTION II – LIABILITY COVERAGE**:

## COMMERCIAL AUTO

Any "employee" of yours is an "insured" while using a covered "auto" you don't own, hire or borrow in your business or your personal affairs.

### D. SUPPLEMENTARY PAYMENTS – INCREASED LIMITS

1. The following replaces Paragraph A.2.a.(2) of **SECTION II – LIABILITY COVERAGE:**

- (2) Up to \$3,000 for cost of bail bonds (including bonds for related traffic law violations) required because of an "accident" we cover. We do not have to furnish these bonds.

2. The following replaces Paragraph A.2.a.(4) of **SECTION II – LIABILITY COVERAGE:**

- (4) All reasonable expenses incurred by the "insured" at our request, including actual loss of earnings up to \$500 a day because of time off from work.

### E. TRAILERS – INCREASED LOAD CAPACITY

The following replaces Paragraph C.1. of **SECTION I – COVERED AUTOS:**

1. "Trailers" with a load capacity of 3,000 pounds or less designed primarily for travel on public roads.

### F. HIRED AUTO PHYSICAL DAMAGE

The following is added to Paragraph A.4., **Coverage Extensions, of SECTION III – PHYSICAL DAMAGE COVERAGE:**

#### Hired Auto Physical Damage Coverage

If hired "autos" are covered "autos" for Liability Coverage but not covered "autos" for Physical Damage Coverage, and this policy also provides Physical Damage Coverage for an owned "auto", then the Physical Damage Coverage is extended to "autos" that you hire, rent or borrow subject to the following:

- (1) The most we will pay for "loss" in any one "accident" to a hired, rented or borrowed "auto" is the lesser of:
- (a) \$50,000;
  - (b) The actual cash value of the damaged or stolen property as of the time of the "loss"; or
  - (c) The cost of repairing or replacing the damaged or stolen property with other property of like kind and quality.
- (2) An adjustment for depreciation and physical condition will be made in determining actual cash value in the event of a total "loss".

- (3) If a repair or replacement results in better than like kind or quality, we will not pay for the amount of betterment.

- (4) A deductible equal to the highest Physical Damage deductible applicable to any owned covered "auto".

- (5) This Coverage Extension does not apply to:

- (a) Any "auto" that is hired, rented or borrowed with a driver; or
- (b) Any "auto" that is hired, rented or borrowed from your "employee".

### G. PHYSICAL DAMAGE – TRANSPORTATION EXPENSES – INCREASED LIMIT

The following replaces the first sentence in Paragraph A.4.a., **Transportation Expenses, of SECTION III – PHYSICAL DAMAGE COVERAGE:**

We will pay up to \$50 per day to a maximum of \$1,500 for temporary transportation expense incurred by you because of the total theft of a covered "auto" of the private passenger type.

### H. AUDIO, VISUAL AND DATA ELECTRONIC EQUIPMENT – INCREASED LIMIT

Paragraph C.2., **Limit Of Insurance, of SECTION III – PHYSICAL DAMAGE COVERAGE** is deleted.

### I. WAIVER OF DEDUCTIBLE – GLASS

The following is added to Paragraph D., **Deductible, of SECTION III – PHYSICAL DAMAGE COVERAGE:**

No deductible for a covered "auto" will apply to glass damage if the glass is repaired rather than replaced.

### J. PERSONAL EFFECTS

The following is added to Paragraph A.4., **Coverage Extensions, of SECTION III – PHYSICAL DAMAGE COVERAGE:**

#### Personal Effects Coverage

We will pay up to \$400 for "loss" to wearing apparel and other personal effects which are:

- (1) Owned by an "insured"; and
- (2) In or on your covered "auto".

This coverage only applies in the event of a total theft of your covered "auto".

No deductibles apply to Personal Effects coverage.



**K. AIRBAGS**

The following is added to Paragraph B.3., Exclusions, of SECTION III – PHYSICAL DAMAGE COVERAGE:

Exclusion 3.a. does not apply to "loss" to one or more airbags in a covered "auto" you own that inflate due to a cause other than a cause of "loss" set forth in Paragraphs A.1.b. and A.1.c., but only:

- a. If that "auto" is a covered "auto" for Comprehensive Coverage under this policy;
- b. The airbags are not covered under any warranty; and
- c. The airbags were not intentionally inflated.

We will pay up to a maximum of \$1,000 for any one "loss".

**L. AUTO LOAN LEASE GAP**

The following is added to Paragraph A.4., Coverage Extensions, of SECTION III – PHYSICAL DAMAGE COVERAGE:

**Auto Loan Lease Gap Coverage for Private Passenger Type Vehicles**

In the event of a total "loss" to a covered "auto" of the private passenger type shown in the Schedule or Declarations for which Physical Damage Coverage is provided, we will pay any unpaid amount due on the lease or loan for such covered "auto" less the following:

- (1) The amount paid under the Physical Damage Coverage Section of the policy for that "auto"; and

**(2) Any:**

- (a) Overdue lease or loan payments at the time of the "loss";
- (b) Financial penalties imposed under a lease for excessive use, abnormal wear and tear or high mileage;
- (c) Security deposits not returned by the lessor;
- (d) Costs for extended warranties, Credit Life Insurance, Health, Accident or Disability Insurance purchased with the loan or lease; and
- (e) Carry-over balances from previous loans or leases.

**M. BLANKET WAIVER OF SUBROGATION**

The following replaces Paragraph A.5., Transfer Of Rights Of Recovery Against Others To Us, of SECTION IV – BUSINESS AUTO CONDITIONS:

**5. Transfer Of Rights Of Recovery Against Others To Us**

We waive any right of recovery we may have against any person or organization to the extent required of you by a written contract executed prior to any "accident" or "loss", provided that the "accident" or "loss" arises out of the operations contemplated by such contract. The waiver applies only to the person or organization designated in such contract.

## BLANKET WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" need be completed only when this endorsement is issued subsequent to preparation of the policy).

This endorsement, effective 12:01 AM 04/01/2018 forms a part of Policy No. WC 065-25-7102

Issued to WESTNET, INC.

By GRANITE STATE INSURANCE COMPANY

We have a right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against any person or organization with whom you have a written contract that requires you to obtain this agreement from us, as regards any work you perform for such person or organization.

The additional premium for this endorsement shall be 2.00 % of the total estimated workers compensation premium for this policy.

Reviewed and approved as to insurance language  
and/or requirements.

*Deidra M. Jay*  
Risk Management  
6-18-18

**City of Garden Grove**  
**INTER-DEPARTMENT MEMORANDUM**

To: Kingsley Okereke

From: Paul Whittaker

Dept: Finance

Dept: Fire

Subject: SOLE SOURCE VENDOR REQUEST;  
Westnet, Inc.

Date: June 26, 2018

**OBJECTIVE**

To utilize Westnet Inc., as the sole source vendor for the purchasing and servicing of First-In Alerting Systems equipment.

**BACKGROUND**

On May 23, 2017, construction started on Fire Station 6. As the station nears completion, it needs alerting/dispatch equipment installed before the building can be considered an operational fire station.

**DISCUSSION**

The City's 911 emergency calls are dispatched through Metro Cities Fire Authority (MetroNet). MetroNet exclusively uses Westnet's First-In Alerting Systems to alert all Garden Grove fire stations of emergencies. Westnet is the sole distributor for First-In Alerting Systems equipment, including all accessories, upgrades, maintenance, and annual service in the United States.

It is necessary to purchase and service the equipment, through the following vendor:

Westnet, Inc.  
Contact: Sahir Lakhani  
714-548-3500  
15542 Chemical Lane, Huntington Beach, CA 92649

**RECOMMENDATION**

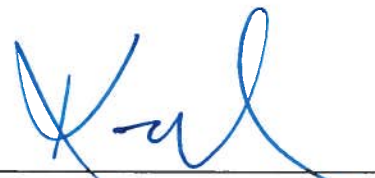
It is recommended that the Finance Director:

- Authorize the Fire Department to use Westnet, Inc. as a sole vendor for the purchasing and servicing of First-In Alerting Systems equipment



PAUL WHITTAKER  
Division Chief, Administration

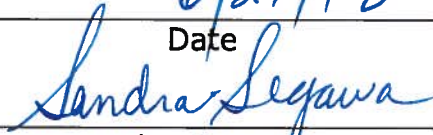
By: Trevor Smouse  
Public Safety Fiscal Analyst



Finance Director

6/27/18

Date



Purchasing Agent

6/25/18

Date



June 21, 2018

Paul Whittaker  
Division Chief, Administration  
Garden Grove Fire Department  
11301 Acacia Parkway  
Garden Grove, CA 92840

Re: First-In Fire Station Alerting System Sole Source Information

Dear Chief Whittaker:

Westnet is the inventor, manufacturer and sole provider of First-In Fire Station Alerting Systems and holds numerous patent and registered intellectual property rights for its First-In System. Westnet's design for the First-In Alerting System is protected by the United States Patent and Trademark Office (US PTO) under Patent Numbers 6,535,121 and 6,778,081. Westnet maintains exclusive ownership of these patents and does not license any third parties to manufacture, alter or make additions to the equipment design.

In addition to the patents listed above, Westnet holds numerous trademarks and service marks issued by the United States Patent and Trademark Office (US PTO) for various components of the First-In Alerting System. If necessary, a list of Westnet's trademarks on the First-In System can be provided.

Due to the proprietary nature of the First-In Product line, Westnet is the only capable and authorized service vendor to maintain the First-In Fire Station Alerting System.

Please feel free to contact me with any questions.

Sincerely,

Sahir Lakhani

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Authorize issuance of purchase orders to Villa Ford, AutoNation Ford Tustin, and Ford of Orange for auto parts to repair City vehicles. (Cost: \$150,000 per year.) ( <i>Action Item</i> )	Date:	7/10/2018

---

**OBJECTIVE**

For the City Council to authorize the Finance Director to issue purchase orders to Villa Ford, AutoNation Ford Tustin, and Ford of Orange for the purchase of Ford parts for repairing City vehicles.

**BACKGROUND**

The Public Works Vehicle Maintenance Division is responsible for maintaining the City's fleet of Ford vehicles. The fleet routinely requires parts that are only distributed by Ford dealers. To avoid delays in the purchase and delivery of parts and to meet the needs of our customers in a timely manner, it is essential that Public Works have the ability to purchase these items from more than one vendor.

**DISCUSSION**

Specifications were prepared and sent to prospective bidders. The variety and quantity of Ford parts quoted was limited to simplify the bidding process. Specifications included eight (8) Ford parts that are used on a regular basis.

Per Garden Grove Municipal Code 2.50.110(d), Villa Ford was deemed to be the lowest bidder, which qualifies Villa Ford as a primary source for parts and the two remaining bidders AutoNation Ford Tustin and Ford of Orange utilized as back up sources for parts.

Villa Ford Orange, CA	\$3,792.72
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AutoNation Ford Tustin	\$3,955.43
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Tustin, CA

Ford of Orange  
Orange, CA

\$3,988.14

#### FINANCIAL IMPACT

The financial impact to the Fleet Management Fund would be \$150,000 per year for five (5) years. There is no impact to the General Fund.

#### RECOMMENDATION

It is recommended that the City Council:

- Authorize the Finance Director to issue three (3) purchase orders for Ford auto parts in a fixed amount collectively not to exceed \$150,000 per year for five (5) years and to be divided between Villa Ford, AutoNation Ford Tustin, and Ford of Orange.

By: Steve Sudduth, Equipment Maintenance Supervisor

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Authorize issuance of purchase orders to Simpson Chevrolet, Selman Chevrolet and DeLillo Chevrolet for auto parts to repair City vehicles. (Cost: \$150,000 per year.) ( <i>Action Item</i> )	Date:	7/10/2018

---

**OBJECTIVE**

For the City Council to authorize the Finance Director to issue purchase orders to Simpson Chevrolet, Selman Chevrolet, and DeLillo Chevrolet for the purchase of Chevrolet parts to repair City vehicles.

**BACKGROUND**

The Public Works Department Vehicle Maintenance Division is responsible for maintaining the City's fleet of Chevrolet vehicles. The fleet routinely requires parts that are only distributed by Chevrolet dealers. To expedite the repair process it is essential that Public Works have the ability to purchase these items from more than one vendor. The lowest bidder, Simpson Chevrolet, will be designated as the primary vendor. Selman Chevrolet and DeLillo Chevrolet will be the second and third vendors utilized.

**DISCUSSION**

Specifications were prepared and sent to prospective bidders. The variety and quantity of Chevrolet parts quoted was limited to simplify the bidding process. Specifications included eight (8) Chevrolet parts that are used on a regular basis. The bid process included a two percent Local Merchants Preference, and per Garden Grove Municipal Code 2.50.110(d), Simpson Chevrolet was deemed to be the lowest bidder, which qualifies Simpson Chevrolet as a primary source for parts and the two remaining bidders as back up sources for parts.

Simpson Chevrolet Garden Grove, CA	\$5,054.47-\$101.09 (2%) = \$4,953.38
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Selman Chevrolet Orange, CA	\$4,982.46
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DeLillo Chevrolet Huntington Beach, CA	\$5,035.86
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#### FINANCIAL IMPACT

The financial impact to the Fleet Management Fund would be \$150,000 per year for five (5) years. There is no impact to the General Fund.

#### RECOMMENDATION

It is recommended that the City Council:

- Authorize the Finance Director to issue three (3) purchase orders for Chevrolet auto parts in a fixed amount collectively not to exceed \$150,000 per year for five (5) years to be divided between Simpson Chevrolet, Selman Chevrolet, and DeLillo Chevrolet as needed.

By: Steve Sudduth, Equipment Maintenance Supervisor

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: Scott C. Stiles                      From: Teresa Pomeroy

Dept.: City Manager                      Dept.: City Clerk

Subject: Receive and file minutes                      Date: 7/10/2018  
from the meeting held on  
June 26, 2018. (*Action  
Item*)

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Attached are the minutes from the meeting held on June 26, 2018, recommended to be received and filed as amended or submitted.

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
Minutes	7/5/2018	Minutes	June_26__2018.pdf

MINUTES

GARDEN GROVE CITY COUNCIL

Regular Meeting

Tuesday, June 26, 2018

Community Meeting Center  
11300 Stanford Avenue, Garden Grove, CA 92840

CONVENE MEETING

At 6:33 p.m., Mayor Pro Tem Beard convened the meeting in the Council Chamber.

ROLL CALL      PRESENT:      (5)      Mayor Pro Tem Beard, Council Members  
O'Neill, T. Nguyen, Klopfenstein, K. Nguyen

ABSENT:      (2)      Mayor Jones, Council Member Bui

INVOCATION

PLEDGE OF ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA

COMMUNITY SPOTLIGHT IN RECOGNITION OF JACK AND MARGE WALLIN AS THE  
2018 STRAWBERRY BALL KING AND QUEEN, AND SENIOR VOLUNTEER MAN AND  
WOMAN OF THE YEAR

COMMUNITY SPOTLIGHT IN RECOGNITION OF THE GARDEN GROVE STRAWBERRY  
FESTIVAL ASSOCIATION FOR ORGANIZING THE 2018 GARDEN GROVE  
STRAWBERRY FESTIVAL

RECOGNITION OF THE 13 AMERICORPS MEMBERS AFTER COMPLETING 100 HOURS  
OF REQUIRED SERVICE TO THEIR COMMUNITY AS PRESENTED BY MARK  
SURMANIAN WITH THE BOYS & GIRLS CLUB OF GARDEN GROVE

ORANGE COUNTY MOSQUITO AND VECTOR CONTROL UPDATE

Mr. Rick Howard, General Manager of Orange County Vector Control provided a PowerPoint presentation. Following the presentation, Council Member Klopfenstein noted that the Asian citrus psyllid is an infestation of citrus trees that is not handled

by Vector Control. Mr. Howard confirmed and stated that the Department of Agriculture handles the Asian citrus psyllid which is a vector that causes a bacterial disease to citrus trees and does not affect people. Council Member Klopfenstein expressed appreciation for Orange County Vector Control's outreach efforts to educate the public, as well as the collaboration between the City and OC Vector Control.

#### ORAL COMMUNICATIONS

Speakers: Charles Mitchell, Scott Harrison, Tony Flores, Leland Sisk, Eric Thorson, Dale Soeffner, Bob Donelson.

#### RECESS

At 7:40 p.m., Mayor Pro Tem Beard recessed the meeting.

#### RECONVENE

At 8:06 p.m., Mayor Pro Tem Beard reconvened the meeting in the Council Chamber with Council Members O'Neill, T. Nguyen, Klopfenstein, and K. Nguyen present.

#### ACCEPTANCE OF THE PUBLIC WORKS ANIMAL SERVICES BUILDING PROJECT LOCATED AT 13802 NEWHOPE STREET, GARDEN GROVE, AS COMPLETE

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

The Public Works Animal Services Building Project be accepted as complete;

The City Manager be authorized to execute the Notice of Completion of Public Improvement and Work; and

The Finance Director be authorized to release the retention payment when appropriate to do so.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

#### APPROVAL OF FINAL TRACT MAP NO. 18078 AND SUBDIVISION IMPROVEMENT AGREEMENT WITH FAR WEST INDUSTRIES, FOR THE PROPERTY LOCATED AT 11222 GARDEN GROVE BOULEVARD, GARDEN GROVE

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill

that:

Final Tract Map No. TR 18078 and the Subdivision Improvement Agreement with Far West Industries, for the property located at 11222 Garden Grove Boulevard, Garden Grove, be approved, and the Subdivision Improvement Bonds be accepted; and

The City Manager be authorized to execute the Agreement on behalf of the City and make minor modifications as appropriate.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AUTHORIZE THE ISSUANCE OF A PURCHASE ORDER TO FIRE SERVICE  
SPECIFICATION & SUPPLY FOR EXTRICATION EQUIPMENT

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

The Finance Director be authorized to issue a purchase order to Fire Service Specification & Supply, in the amount of \$25,566.92, for the purchase of extrication equipment.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AUTHORIZE THE ISSUANCE OF A PURCHASE ORDER TO DANGELO COMPANY TO  
PURCHASE 50 CLOW WET BARREL FIRE HYDRANTS

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

The Finance Director be authorized to issue a purchase order to Dangelo Company in the amount of \$90,094.09 for the purchase of 50 Clow Wet Barrel Fire Hydrants.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AUTHORIZATION TO VOID UNCLAIMED CHECKS DEPOSITED WITH THE CITY AFTER THREE YEARS FROM THE DATE OF ISSUANCE

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

The Finance Director be authorized to void the unclaimed checks of fifteen dollars or greater that remain uncashed after three years from the date of issuance, which remained unclaimed forty-five days after the Notice of Publication was issued; and

The funds be transferred to the general fund or to the respective funds from which they were issued.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

RECEIVE AND FILE MINUTES FROM THE MEETING HELD ON JUNE 12, 2018  
(F: Vault)

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

The minutes from the meeting held on June 12, 2018, be received and filed.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

WARRANTS

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

Payroll Warrants 182374 through 182422; Direct Deposits D332017 through D332743; Wires W2482 through W2485; be approved as presented in the warrant register submitted, and have been audited for accuracy and funds are available for payment thereof by the Finance Director; and

Regular Warrants 639696 through 640045; and Wires W2184 through W2200; and W639457; be approved as presented in the warrant register submitted, and have

been audited for accuracy and funds are available for payment thereof by the Finance Director.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

APPROVAL TO WAIVE FULL READING OF ORDINANCES LISTED

It was moved by Council Member Klopfenstein, seconded by Council Member O'Neill that:

Full reading of Ordinances listed be waived.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

PUBLIC HEARING - ADOPTION OF A RESOLUTION CONFIRMING THE GARDEN GROVE TOURISM IMPROVEMENT DISTRICT ADVISORY BOARD REPORT AND LEVYING AN ASSESSMENT FOR FISCAL YEAR 2018-2019

Following staff's presentation, Mayor Pro Tem Beard declared the Public Hearing open and asked if anyone wished to address the City Council on the matter.

Speakers: None

There being no response from the audience, the Public Hearing was declared closed.

The City Clerk announced that no protests were received; therefore, there is not a majority protest.

It was moved by Council Member Klopfenstein, seconded by Council Member K. Nguyen that:

Resolution No. 9516-18 entitled: A Resolution of the City Council of the City of Garden Grove confirming the annual report of the Garden Grove Tourism Improvement District Advisory Board and Levying the assessment for Fiscal Year 2018-2019 for the Garden Grove Tourism Improvement District, be adopted.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

ADOPTION OF BUDGET RESOLUTIONS AMENDING FISCAL YEAR 2018-19  
PROPOSED BUDGETS

Following staff presentation and City Council discussion, it was moved by Council Member K. Nguyen, seconded by Council Member O'Neill that:

Resolution No. 9517-18 entitled: A Resolution of the City Council of the City of Garden Grove amending the basic services, cable services, grant services, water services, capital improvements, special assessments relating to Street Lighting, Main Street and Parking District, Tourism Improvement District and Park Maintenance District Budgets for Fiscal Year 2018-19, be adopted;

Resolution No. 9518-18 entitled: A Resolution of the City Council of the City of Garden Grove adopting an appropriations limit for Fiscal Year 2018-19 implementing Article XIII B of the State Constitution pursuant to Section 7900 et seq. of the Government Code, be adopted;

Resolution No. 9519-18 entitled: A Resolution of the City Council of the City of Garden Grove appropriating fund balances as of June 30, 2018 to reserves for future year appropriations, be adopted;

Resolution No. 9520-18 entitled: A Resolution of the City Council of the City of Garden Grove reappropriating certain Fiscal Year 2017-18 project balances and encumbrances for the Fiscal Year 2018-19, be adopted; and

The Water Supply Program budget amendment for Fiscal Year 2018-19, be approved.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

RECESS

At 8:50 p.m., Mayor Pro Tem Beard recessed the meeting.

RECONVENE

At 9:00 p.m., Mayor Pro Tem Beard reconvened the meeting in the Council Chamber with Council Members O'Neill, T. Nguyen, Klopfenstein, and K. Nguyen



present.

APPROVAL OF AN AMENDMENT TO THE AGREEMENT WITH GEO GROUP INC., FOR FISCAL YEAR 2018-19 TO PROVIDE JAIL BOOKING AND SECURITY

Following staff presentation, it was moved by Council Member O'Neill, seconded by Council Member K. Nguyen that:

The Amendment to the Agreement with GEO Group Inc., in the amount not to exceed \$562,347, for Fiscal Year 2018-19, be approved; and

The City Manager or his designee be authorized to sign the agreement and make any modifications as needed on behalf of the City.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AWARD OF CONTRACT TO KOA CORPORATION TO PROVIDE INSPECTION SERVICES FOR PROJECT NOS. 7164, 7131, 7132, AND 7134 – TRAFFIC SIGNAL MODIFICATIONS AND INSTALLATION OF PEDESTRIAN COUNTDOWN SIGNAL HEADS AT VARIOUS LOCATIONS

Following staff presentation, it was moved by Council Member Klopfenstein, seconded by Council Member K. Nguyen that:

A contract be awarded to KOA Corporation, in the not-to-exceed amount of \$83,000, to provide inspection services for Project No. 7164 Traffic Signal Modifications at Haster Street/Lampson Avenue, Project No. 7131 Traffic Signal Modifications at Garden Grove Boulevard/Ninth Street/Nina Place, Project No. 7132 Traffic Signal Modifications at Magnolia Street/Orangewood Avenue, and Project No. 7134 Pedestrian Countdown Signal Heads at 99 Signalized Intersections; and

The City Manager be authorized to execute the agreement, and make minor modifications as appropriate thereto, on behalf of the City.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AWARD OF CONTRACT TO PTM GENERAL ENGINEERING SERVICES, INC., FOR CONSTRUCTION OF PROJECT NOS. 7164, 7131, 7132, AND 7134 – TRAFFIC SIGNAL MODIFICATIONS AND PEDESTRIAN COUNTDOWN SIGNAL HEADS AT VARIOUS LOCATIONS

Following staff presentation and City Council discussion, it was moved by Council Member K. Nguyen, seconded by Council Member Klopfenstein that:

A contract be awarded to PTM General Engineering Services, Inc., in the amount of \$939,039, for construction of Project No. 7164 Traffic Signal Modifications at Haster Street/Lampson Avenue, Project No. 7131 Traffic Signal Modifications at Garden Grove Boulevard/Ninth Street/Nina Place, Project No. 7132 Traffic Signal Modifications at Magnolia Street/Orangewood Avenue, and Project No. 7134 Pedestrian Countdown Signal Heads at 99 Signalized Intersections; and

The City Manager be authorized to execute the agreement, and make minor modifications as appropriate thereto, on behalf of the City.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

AWARD OF CONTRACT TO SOUTHERN COUNTIES OIL CO. DBA SC FUELS TO PROVIDE FUEL AND FUEL MANAGEMENT FOR CITY VEHICLES

Following staff presentation, it was moved by Council Member O'Neill, seconded by Council Member Klopfenstein that:

A contract be awarded to Southern Counties Oil Company dba SC Fuels, in the amount of \$3,000,000, for the purchase of fuel for city vehicles and equipment; and

The City Manager be authorized to execute the agreement and make minor modifications as appropriate thereto on behalf of the City.

The motion carried by a 5-0-2 vote as follows:

Ayes: (5) O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard  
Noes: (0) None  
Absent: (2) Bui, Jones

## SECOND READING AND ADOPTION OF ORDINANCE NO. 2893

*(As approved earlier in the meeting, it was moved by Council Member Klopfenstein, seconded by Council Member O'Neill, and approved by a 5-0-2 vote, that full reading of ordinances listed be waived.)*

Following the reading of the title, it was moved by Council Member K. Nguyen, seconded by Council Member Klopfenstein that:

Ordinance No. 2893 entitled: An Ordinance of the City Council of the City of Garden Grove establishing the amount of money for paramedic services that must be raised by an ad valorem tax override and the setting of the tax rate of said override, be adopted.

The motion carried by a 5-0-2 vote as follows:

Ayes:	(5)	O'Neill, T. Nguyen, Klopfenstein, K. Nguyen, Beard
Noes:	(0)	None
Absent:	(2)	Bui, Jones

## MATTERS FROM THE MAYOR, CITY COUNCIL MEMBERS, AND CITY MANAGER

### UPDATE ON THE UPCOMING JULY 4<sup>TH</sup> HOLIDAY PUBLIC SAFETY PREPARATION AS REQUESTED BY MAYOR PRO TEM BEARD

Fire Chief Schultz provided a PowerPoint presentation on the Fire Department's preparation for the upcoming July 4<sup>th</sup> holiday.

Council Member Klopfenstein requested a cost analysis. City Manager Stiles responded that a report will be prepared and provided to the City Council in either July or August.

Mayor Pro Tem Beard commented that the citizens have a responsibility to be involved and to report illegal fireworks; he suggested that a Citizen's Advisory group be established; and to have a discussion on becoming a charter city.

Council Member O'Neill suggested the City put more resources into addressing the illegal fireworks two to three weeks before the July 4<sup>th</sup> holiday.

City Manager Stiles noted that with the recent tragic and fatal shooting of Long Beach Fire Captain David Rosa, the Fire Department and Police Department posted officers at points along the 405 freeway in solidarity as Captain Rosa's body was transported to South County for interment, and the City raised the flag at half-staff. He also authorized the Fire Chief to offer support from the Garden Grove Fire Department to the Long Beach Fire Department to allow Captain Rosa's colleagues the opportunity to attend the funeral.

UPDATE ON TRAFFIC SAFETY AND SECURITY CONCERNS IN DISTRICT 6 AS REQUESTED BY COUNCIL MEMBER KIM NGUYEN

Police Chief Elgin provided the traffic safety update on Roxey Drive and Trask Avenue, noting that radar speed trailers have been utilized; two stop signs have been posted within the last year for both east and west bound traffic; 300 citations have been issued and there has been one traffic collision. A pedestrian crosswalk has been installed with bright and clearly visible arrows pointing towards the crosswalk, and police continue to patrol the intersection enforcing traffic violations.

With regards to Haster Street and Lampson Avenue, there is a history of serious and fatal traffic collisions with the majority related to bicyclists and pedestrians crossing illegally. In the past year the Neighborhood Traffic Unit has utilized bike and pedestrian grant funding through the California Office of Traffic Safety, and has issued approximately 250 pedestrian and bicyclist citations. Lighting has been improved and approximately 20 signs illuminating "Do Not Cross" have been installed in the high accident area.

In response to security concerns for the Wintersburg Channel, the Police Department advised the school district about security, and has warned students not to trespass on the Channel; the Special Resource Team in charge of homeless stepped up patrol in the area to address any transient issues, and no complaints have been filed; the Crime Prevention Unit conducted a home security inspection at a residence on Ranchero Way as well as conducting a Neighborhood Watch meeting. The Police Department has studied crime data and there has not been any recent criminal activity identified.

Public Works Director Murray stated that he inspected the access gates to the Wintersburg Channel and noted the gates are locked; however the gates are low enough for someone to jump over. A letter from the City was sent to the County requesting the gate be raised.

City Traffic Engineering, Dai Vu, noted that the City Council awarded a contract to PTM General Engineering Services, Inc., at tonight's meeting to construct signal modifications, which includes a modification to the project at Haster Street and Lampson Avenue to install left turn phasing. This should be completed in approximately four months. The Traffic Commission approved staff's recommendation to install several traffic calming measures at Roxey Drive that included: painting a double yellow centerline, a four inch white line that delineates the parking lane from the travel lane, and posting of 25 mile per hour signs. Police Motor Officers have been to the area several times a week to enforce the speed limit. Staff will be submitting an application for grant money to install a traffic signal at Trask Avenue and Roxey Drive.

Council Member K. Nguyen thanked staff for reporting on these issues, noting that she asked for this report in order to be proactive and transparent for the benefit of the residents.

MATTERS FROM THE MAYOR, CITY COUNCIL MEMBERS, AND CITY MANAGER  
(Continued)

Council Member O'Neill announced that the fundraiser held at the Woman's Civic Club of Garden Grove last Saturday was very well attended. He expressed his disappointment regarding the Veteran's cemetery plans in Irvine not moving forward, and commented that veterans deserve a resting place. He thanked Assistant City Manager Okereke for a thoughtful invocation, and noted that his thoughts and prayers are with the family of recently slain Long Beach Fire Captain David Rosa.

Council Member T. Nguyen noted that the intersection of Brookhurst Way at Stanford Avenue is very unsafe and requested follow up from staff. She wished everyone a happy and safe July 4<sup>th</sup> holiday.

Council Member K. Nguyen requested information on how the City determines listing proclamations noting that World Refugee Day was June 20<sup>th</sup>. She announced the upcoming summer concert series kick off with the Motown sound of Stone Soul on June 27, 2018, at the Elks Lodge on Trask Avenue. She thanked staff for their work in supporting the decisions to cut the budget, expressing her hope that in the future there can be opportunities to provide more activities for the residents.

Council Member Klopfenstein noted that the property issues that were brought up under Oral Communications at the last meeting have been addressed and will continue to be addressed by the Building Division and Public Safety, and there will be updates on the progress. She noted that the City Council approved the Notice of Completion for the Animal Services Building Project at tonight's meeting, and that she toured the building, has been on a ride along with Animal Care Services, and has toured the OC Humane Society. She expressed the need to take care of animals, and that the Animal Care Services is a cost savings for the City. She commented that she understands that there are budgetary constraints; however, she would like information provided on how to make it possible to fund a third Animal Care Services Officer.

Mayor Pro Tem Beard noted that he is looking forward to this Friday's Car Show featuring VW's. He wished everyone a safe and happy July 4<sup>th</sup>, and noted that coming up on September 17<sup>th</sup> is Constitution Day and he would like to list a Proclamation for Constitution Day on the agenda in September. He noted that he will be adjourning the meeting in memory of Long Beach Fire Department Captain David Rosa. Captain Rosa, a 17 year veteran, was shot during a response to an emergency call. He subsequently succumbed and passed away early Monday, June

25, 2018. The City of Garden Grove Fire Department along with the City Council and City staff sends their deepest condolences.

ADJOURNMENT

At 9:45 p.m., Mayor Pro Tem Beard adjourned the meeting in memory of Long Beach Fire Department Captain David Rosa. The next Regular City Council Meeting will be held on Tuesday, July 10, 2018, at 5:30 p.m. at the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California.

Teresa Pomeroy, CMC  
City Clerk

## City of Garden Grove

## INTER-DEPARTMENT MEMORANDUM

To:	Scott C. Stiles	From:	Teresa Pomeroy
Dept.:	City Manager	Dept.:	City Clerk
Subject:	Approval of warrants. (Action Item)	Date:	7/10/2018

Attached are the warrants recommended for approval.

**ATTACHMENTS:**

Description	Upload Date	Type	File Name
Warrants	7/5/2018	Warrants	CC_Warrants_7-10-18.pdf

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
355091	#9 GIFT SHOP	REV & VOID	-36.96 *
378142	REV & VOID	WATER CLOSING BILL REFUND	-36.01 *
515966	NGUYEN, BOYCE JR	REV & VOID	-1,572.00 *
520007	NGUYEN, BOYCE JR	REV & VOID	-1,498.00 *
526559	NGUYEN, BOYCE JR	REV & VOID	-1,537.00 *
530193	NGUYEN, BOYCE JR	REV & VOID	-1,537.00 *
534382	NGUYEN, BOYCE JR	REV & VOID	-1,537.00 *
536178	NGUYEN, BOYCE JR	REV & VOID	-1,537.00 *
544555	NGUYEN, BOYCE JR	REV & VOID	-1,543.00 *
546253	NGUYEN, BOYCE JR	REV & VOID	-1,543.00 *
548065	NGUYEN, BOYCE JR	REV & VOID	-1,543.00 *
553074	ABC LEGAL SERVICES RAUL PERAZA	REV & VOID	-15.00 *
555870	NGUYEN, BOYCE JR	REV & VOID	-1,543.00 *
562529	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
566309	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
568079	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
569455	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
571428	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
576159	NGUYEN, BOYCE JR	REV & VOID	-978.00 *
580667	NGUYEN, BOYCE JR	REV & VOID	-978.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
582853	MONTEJO APARTMENTS	REV & VOID	-1,019.00 *
584471	NGUYEN, BOYCE JR	REV & VOID	-1,019.00 *
585912	NGUYEN, BOYCE JR	REV & VOID	-1,019.00 *
631425	OCEAN BLUE ENVIRONMENTAL SERVICES, INC.	REV & VOID	-1,791.36 *
638493	OCEAN BLUE ENVIRONMENTAL SERVICES, INC.	REV & VOID	-1,933.16 *
640046	ENTERPRISE RIDESHARE EAN SERVICES, LLC	OTHER RENTALS	3,715.00 *
640047	EXCLUSIVE AUTO DETAIL	MOTOR VEHICLE MAINT	2,592.00 *
640048	MAILFINANCE INC	OFFICE EQUIP RENTAL	231.00
		MAINT-SERV CONTRACTS	620.91
		INTEREST COSTS	251.40
		LONG TERM DEBT	924.36
		PROPERTY TAXES	109.02
			2,136.69 *
640049	TYCO INTEGRATED SECURITY LLC	MAINT-SERV CONTRACTS	53.82 *
640050	DTNtech MARKETING	OTHER REC/CULT SUPP	500.48 *
640051	DAVE & BUSTER'S SPECIAL EVENT CONTRACT	ADMN/ENTRANCE FEE	1,987.18 *
640052	AMC THEATRES	ADMN/ENTRANCE FEE	611.10 *
640053	CIVIC, LLC	OTHER PROF SERV	900.00 *
640054	UNION BANK	MV GAS/DIESEL FUEL	315.12 *
640055	UNION BANK	MV GAS/DIESEL FUEL	797.12 *
640056	UNION BANK	MV GAS/DIESEL FUEL	529.38 *
640057-640058	VOID WARRANTS		
640059	HOME DEPOT CREDIT SERVICES DEPT	WHSE INVENTORY	289.96

PAGE TOTAL FOR "\*" LINES = 7,356.37

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
		REPAIRS-FURN/MACH/EQ	38.74
		SEEDS/PLANTS	242.81
		FERTILIZER	16.67
		OTHER AGR SUPPLIES	17.76
		FOOD SERV SUPPL	107.72
		CANINE EXPENSES	56.26
		MOTOR VEH PARTS	171.96
		PAINT/DYE/LUBRICANTS	159.83
		ELECTRICAL SUPPLIES	820.19
		HSHLD EQUIP/SUPPLIES	16.14
		PIPES/APPURTENANCES	554.95
		MAINT SUPP-TRAFF SIG	53.11
		OTHER MAINT ITEMS	610.36
		GEN PURPOSE TOOLS	175.50
		MINOR FURN/EQUIP	507.17
		OTHER MINOR TOOLS/EQ	991.22
		LUMBER	763.14
		WIRE/METALS	95.09
		HARDWARE	275.58
		AGGREGATES/MASONRY	110.23
		OTHER CONST SUPPLIES	132.02
			6,206.41 *
640060	STATE OF CALIF-FRANCHISE TAX BOARD	COUNTY OF ORANGE	444.94 *
640061	FRANCISCO, KATHERINE	MED TRUST REIMB	40.17 *
640062	REPUBLIC SERVICES #676	OTHER PROF SUPPLIES	81.68 *
640063	LOWE*, SCOTT T	MED TRUST REIMB	442.49 *
640064	RAMONA, INC.	WTR/SWR CONST CONTR	271,336.15 *
640065	REYNOLDS, MICHELLE	COUNTY OF ORANGE	461.54 *
640066	RUITENSCHILD, LES	DEP CARE REIMB	762.80 *
640067	SAUCEDO, DANA	MED TRUST REIMB	40.00 *
640068	SEGAWA*, SANDRA	MED TRUST REIMB	180.00 *
640069	WASINGER, JEAN M.	COUNTY OF ORANGE	134.31 *

WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640070	WINN*, SUSAN	OTHER CONF/MTG EXP	15.00 *
640071	ORANGE COUNTY SHERIFF	COUNTY OF ORANGE	428.50 *
640072	INTERNAL REVENUE SERVICE	COUNTY OF ORANGE	37.50 *
640073	AARON HANSEN	MED TRUST REIMB	148.57 *
640074	T&T ENVIRONMENTAL LLC	OTHER PROF SERV	3,325.00 *
640075	BANNER BANK	WTR/SWR CONST CONTR	14,280.85 *
640076	UNITED STATES TREASURY	COUNTY OF ORANGE	130.00 *
640077	SHANNON WAINWRIGHT	COUNTY OF ORANGE	553.85 *
640078	XEROX CORPORATION DBA: XEROX FINANCIAL SERVICES	INTEREST COSTS	259.04
		LONG TERM DEBT	5,060.68
		PROPERTY TAX	412.28
			5,732.00 *
640079-640082	VOID WARRANTS		
640083	AT&T	TELEPHONE	20,706.11 *
640084	AT&T	AT&T	2,678.98 *
640085	FRONTIER COMMUNICATIONS	TELEPHONE/BEEPERS	808.38 *
640086-640090	VOID WARRANTS		
640091	SO CALIF EDISON CO	ELECTRICITY	106,951.62 *
640092	SO CALIF GAS CO	NATURAL GAS	14,832.99 *
640093	TIME WARNER CABLE	CABLE	641.09 *
640094	*DARE, THOMAS R	POLICE DEPT	160.00 *
640095	CITY OF GARDEN GROVE-WORK COMP ACCT	SELF-INS CLAIMS	228,238.76 *

PAGE TOTAL FOR "\*" LINES = 399,669.20

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640096	*LEE, GRACE	DEP CARE REIMB	384.60 *
640097	MONTEJO APARTMENTS	RENT SUBSIDY	340.00 *
640098	NOMADIC DISPLAY	OTHER MINOR TOOLS/EQ	1,921.40 *
640099	STATE OF CALIFORNIA DEPARTMENT OF HEALTH SERVICES	LIAB.CLAIMS PAYMENT	300.56 *
640100	ARTIFICIAL INTELLIGENCE NETWORKS INC	OTHER PROF SERV	2,280.00 *
640101	PUMP SYSTEMS INC	OTHER MAINT ITEMS	892.00 *
640102	MELISSA ALLISON SANDERS AND RKR LEGAL, APC	LIAB.CLAIMS PAYMENT	84,699.44 *
640103	BUBBLE PLAYGROUND	ADMN/ENTRANCE FEE	616.00 *
640104	HODSON, AARON	DEP CARE REIMB	92.31 *
640105	CITIBANK %CITIGROUP	OTHER PROF SERV	31.00
		L/S/A TRANSPORTATION	1,644.31
		LODGING	5,978.37
		OTHER CONF/MTG EXP	747.51
			8,401.19 *
640106	*BROWN, JEFFREY	POLICE DEPT	394.30 *
640107	RIO HONDO COLLEGE	TUITION/TRAINING	207.00 *
640108	ORTEGA, DAVID	CASH-UNION BANK (C)	2,500.00
		EMPL COMPUTER PURCH	0.00
			2,500.00 *
640109	MEDIEVAL TIMES DINNER & TOURNAMENT, INC.	ADMN/ENTRANCE FEE	1,994.60 *
640110	NGUYEN,TON SANH	RENT SUBSIDY	10,545.00 *
640111	NGUYEN, BOYCE JR	RENT SUBSIDY	34,492.00 *
640112	COUNTY RECORDER	DUES/MEMBERSHIPS	145.00 *
640113	SCHAFER CONSULTING, INC.	OTHER PROF SERV	9,854.72 *
640114	FAIR HOUSING FOUNDATION	OTHER PROF SERV	1,446.60 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640115	SUPPLY SOLUTIONS	WHSE INVENTORY	101.72 *
640116	CALPERS EDUCATIONAL FORUM	REGISTRATION FEES	349.00 *
640117	YO-FIRE SUPPLIES	WHSE INVENTORY	3,698.34
		OTHER MAINT ITEMS	6,750.01
			10,448.35 *
640118	TRUESDAIL LABORATORIES, INC	OTHER PROF SERV	1,906.50 *
640119	SOUTH BAY FOUNDRY INC	WHSE INVENTORY	3,491.10 *
640120	SIMPLE SOLUTIONS	OTHER MINOR TOOLS/EQ	400.00 *
640121	THE GEO GROUP, INC.	JAILER SERVICES	13,991.33
		PROJECT REAPPROP	31,506.00
			45,497.33 *
640122	CENTURY INDUSTRIES LLC	OTHER REC/CULT SUPP	4,455.73 *
640123	ORANGE COUNTY CLERK RECORDER HALL OF FINANCE & RECORDS	EXEMPT FEE REFUND	100.00 *
640124	GREG FURLONG	OTHER PROF SERV	180.00 *
640126	LINE GEAR FIRE & RESCUE EQUIPMENT	UNIFORMS	565.69 *
640127	CORELOGIC SOLUTIONS, LLC	SOFTWARE	394.50 *
640128	GRP2 UNIFORMS, INC KEYSTONE UNIFORMS, OC	UNIFORMS	16,164.26 *
640129	SOUTHERN COMPUTER WAREHOUSE	MINOR FURN/EQUIP	354.50 *
640130	ZERO WASTE USA	OTHER MAINT ITEMS	213.31 *
640131	HEARTSMART.COM	SAFETY EQ/SUPPLIES	7,175.00 *
640132	JAIME POMBO	FACT:STGTH FTHRS	450.00 *
640133	INFOSEND, INC.	POSTAGE	6,017.78
		PRINTING	4,080.56
		OTHER PROF SERV	6,532.90

PAGE TOTAL FOR "\*" LINES = 92,246.99

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640134	BRETT MEISLAHN	PAPER/ENVELOPES	1,161.10
640135	PREMIUM QUALITY LIGHTING		17,792.34 *
640136	CALIFORNIA BUILDING OFFICIALS	OTHER PROF SERV	2,878.52 *
640137	DATABLAZE LIGHTING UP WIRELESS DATA	ELECTRICAL SUPPLIES	1,958.50 *
640138	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	ADVERTISING	60.00 *
640139	GARDEN GROVE STRAWBERRY FESTIVAL ASSOCIATION	OTHER PROF SERV	79.90 *
640140	SAN GABRIEL VALLEY ARSON TASK FORCE	OTHER PROF SERV	5,630.84 *
640141	LACEY CUSTOM LINENS, INC.	FOOD	160.00 *
640142	PRINT MASTERS 85	FACT:YTH ENRCH	112.00 *
640143	KELLY ASSOCIATES MANAGEMENT GROUP LLC	LAUNDRY SERVICES	131.24 *
640144	COUNTY OF ORANGE TREASURER-TAX COLLECTOR	OTHER PROF SERV	357.57 *
640145	CPCA	OTHER PROF SERV	1,500.00 *
640146	ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA INC.	NETWORKING SERVICES	1,115.00
640147	PRADO FAMILY SHOOTING RANGE	PAPER/ENVELOPES	648.12
640148	FEHR & PEERS		1,763.12 *
640149	NATIONAL CREDIT REPORTING	DUES/MEMBERSHIPS	2,315.00 *
640150	JTB SUPPLY CO INC	ENGINEERING SERVICES	18,003.00 *
640151	PROFESSIONAL TURF SPECIALTIES, INC.	PISTOL RANGE RENTAL	375.00 *
		PROJECT REAPPROP	1,058.58 *
		OTHER PROF SERV	25.90 *
		ELECTRICAL SUPPLIES	3,803.58
		MAINT SUPP-TRAFF SIG	506.43
			4,310.01 *
		MAINT OF REAL PROP	11,100.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640152	CHUMACERO, DEANNA	OTHER FOOD ITEMS	74.54 *
640153	NEOPOST USA INC.	POSTAGE	926.84 *
640154	YES REMODELING & MAINTENANCE	OTHER PROF SERV	5,000.00 *
640155	AAA OIL, INC. dba California Fuels & Lub	MV GAS/DIESEL FUEL	858.50 *
640156	ADMINSURE	SELF-INS ADMN	16,692.00 *
640157	AKM CONSULTING ENGINEERS	ENGINEERING SERVICES	17,552.50 *
640158	ANTHONY JORDAN FERNANDEZ	OTHER PROF SERV	1,147.50 *
640159	ABSOLUTE INTERNATIONAL SECURITY	OTHER PROF SERV	1,267.03 *
640160	*ABU-HAMDIYYAH, AMEENAH	TUITION REIMB	410.12 *
640161	ADAMSON POLICE PRODUCTS	MOTOR VEH PARTS	199.19 *
640162	ALAN'S LAWN AND GARDEN CENTER INC.	OTHER MAINT ITEMS	95.88
		OTHER MINOR TOOLS/EQ	276.88
			372.76 *
640163	ALL AMERICAN ASPHALT	ASPHALT PRODUCTS	412.40 *
640164	ALL CITY MANAGEMENT SERVICES, INC.	CROSSING GUARD SERV	19,186.20 *
640165	*ALVAREZ-BROWN, RICHARD	TUITION REIMB	1,600.00 *
640166	AMERICAN LEAK DETECTION	MAINT OF REAL PROP	500.00 *
640167	BARREIRO*, JOSUE	OTHER FOOD ITEMS	73.26
		OTHER REC/CULT SUPP	43.16
			116.42 *
640168	BOLSA NURSERY	TREES	252.30 *
640169	BOWERS MUSEUM	ADMN/ENTRANCE FEE	1,027.00 *
640170	BROWNELLS, INC.	OTHER MINOR TOOLS/EQ	83.82 *
640171	BUREAU VERITAS NORTH AMERICA INC	OTHER PROF SERV	26,127.50 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640172	C.WELLS PIPELINE MATERIALS INC.	WHSE INVENTORY	44,646.25 *
640173	CALIF FORENSIC PHLEBOTOMY INC	MEDICAL SERVICES	2,996.00 *
640174	CALPACS	DUES/MEMBERSHIPS	275.00 *
640175	CASILLAS, VICTORIA	FOOD SERV SUPPL	9.70
		OTHER FOOD ITEMS	75.49
			85.19 *
640176	CAMERON WELDING SUPPLY	OTHER PROF SERV	46.13
		FACT:PROGRAM EXP	20.71
		MOTOR VEH PARTS	117.63
			184.47 *
640177	SUPPLYWORKS	WHSE INVENTORY	1,775.44 *
640178	COASTLINE EQUIPMENT	MOTOR VEH PARTS	861.68 *
640179	COMMUNITY VETERINARY HOSPITAL	POLICE CANINE EXP	683.75 *
640180	CONTROLWORKS, INC.	MAINT OF REAL PROP	885.00 *
640181	CRON & ASSOCIATES TRANSCRIPTION, INC.	OTHER PROF SERV	4,874.72 *
640182	L.N.CURTIS & SONS DEPT 34921	SAFETY EQ/SUPPLIES	130.89 *
640183	DIAMOND ENVIRONMENTAL SERVICES	MAINT-SERV CONTRACTS	122.10 *
640184	DOCUMEDIA GROUP	PAPER/ENVELOPES	1,964.29 *
640185	DUNN-EDWARDS CORPORATION	PAINT/DYE/LUBRICANTS	94.34 *
640186	ENTERPRISE FLEET MGMT INC CUSTOMER BILLINGS	VEHICLE OP LEASE	7,116.80 *
640187	EXCLUSIVE AUTO DETAIL	MOTOR VEHICLE MAINT	222.00 *
640188	FARMER BROTHERS CO.	FOOD	583.80 *
640189	FERTAL, MATTHEW J	DEPOSIT REFUNDS	250.00 *
640190	FLOWERS BY CINA, INC.	OTHER AGR SUPPLIES	229.51 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640191	FORD OF ORANGE	MOTOR VEH PARTS	696.98 *
640192	THE SHERWIN-WILLIAMS CO DBA FRAZEE PAINTS	PAINT/DYE/LUBRICANTS OTHER MAINT ITEMS	257.48 171.10 428.58 *
640193	GBS LINENS	LAUNDRY SERVICES	3,097.93 *
640194	REPUBLIC SERVICES #676	REFUSE COLL SERV	67.63 *
640195	GOMEZ, JOSE	DUES/MEMBERSHIPS	90.00 *
640196	GRAYBAR	ELECTRICAL SUPPLIES	637.04 *
640197	HARBOR POINTE AIR CONDITIONING & CONTROL SYSTEMS, INC.	MAINT-SERV CONTRACTS	1,101.81 *
640198	*LEDESMA, ANGELA	MILEAGE REIMB	24.85 *
640199	HILL'S BROS LOCK & SAFE INC	MAINT-SERV CONTRACTS	1,135.39 *
640200	DANGELO CO	WHSE INVENTORY	1,930.60 *
640201	JOHN BARANGER III	TUITION/TRAINING	80.00 *
640202	KAWELL*, RHONDA C.	LODGING	636.79 *
640203	KNORR SYSTEMS, INC.	OTHER MAINT ITEMS	545.00 *
640204	LANGUAGE LINE SERVICES	TELEPHONE	29.14 *
640205	MARTIN & CHAPMAN	OFFICE SUPPLIES/EXP	1,739.06 *
640206	MC MASTER-CARR SUPPLY CO	OTHER MINOR TOOLS/EQ	165.95 *
640207	MERCHANTS BLDG MAINT LLC	MAINT-SERV CONTRACTS	29,774.26 *
640208	FIS ACCOUNTING DEPT	BANK FEES-CRDT CD	25,311.69 *
640209	MOMAR, INC	MOTOR VEH PARTS	494.13 *
640210	MR. D'S AUTOMOTIVE	MOTOR VEHICLE MAINT	70.00 *
640211	CABCO YELLOW, INC.	L/S/A TRANSPORTATION	20,508.00 *

PAGE TOTAL FOR "\*" LINES = 88,564.83

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640212	VOID WARRANT		
640213	OFFICE DEPOT, INC	OFFICE SUPPLIES/EXP	5,071.75 *
640214	O'CADIZ-HERNANDEZ*, GABRIELA	FOOD	44.91
		FOOD SERV SUPPL	23.27
		OTHER FOOD ITEMS	23.49
		OTHER REC/CULT SUPP	42.51
			134.18 *
640215	OCEAN BLUE ENVIRONMENTAL SERVICES, INC.	HAZMAT REMOVAL	2,101.52
		OTHER MAINT ITEMS	1,623.00
			3,724.52 *
640216	ORANGE COUNTY NEWS	ADVERTISING	760.00 *
640217	OVERLAND, PACIFIC & CUTLER INC.	RELOCATION SERVICES	4,745.00 *
640218	PACIFIC MEDICAL CLINIC	MEDICAL SERVICES	320.00 *
640219	PACIFIC COAST CABLING, INC. PCC NETWORK SOLUTIONS	TELEPHONE	842.50 *
640220	PETTY CASH - MUN SRVC CTR	OTHER CONF/MTG EXP	15.00
		TUITION/TRAINING	37.69
		TREES	64.63
		BOTTLED WATER	10.40
		TESTING MATERIALS	120.00
		CANINE EXPENSES	50.85
		FILMS/VIDEOTAPES	10.61
		MV GAS/DIESEL FUEL	10.00
		MOTOR VEH PARTS	55.28
		JANITORIAL SUPPLIES	20.94
		ELECTRICAL SUPPLIES	9.79
		OTHER MAINT ITEMS	7.53
		OFFICE SUPPLIES/EXP	57.09
		GEN PURPOSE TOOLS	20.46
		HARDWARE	25.07
		CELL PHONE/BEEPER	20.00
			535.34 *
640221	PRIME&MULTI-SPEC CLN OF ANAHEIM DBA GATEWAY URGENT CARE CTR	MEDICAL SERVICES	3,210.00 *
640222	PRIME TRUCK TIRE SERVICE	REPAIRS-FURN/MACH/EQ	601.63 *

PAGE TOTAL FOR "\*" LINES = 19,944.92

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640223	REDFLEX TRAFFIC SYSTEMS, INC.	OTHER PROF SERV	30,800.00 *
640224	PROACTIVE WORK HEALTH SERVICES	MEDICAL SERVICES	2,828.00 *
640225	SIEMENS INDUSTRY, INC.	MAINT-SERV CONTRACTS	13,828.60 *
640226	DATA TICKET, INC	OTHER PROF SERV	5,591.45 *
640227	SAFETY 1st PEST CONTROL, INC	OTHER MAINT ITEMS	450.00 *
640228	SAXE-CLIFFORD, PH.D., SUSAN	MEDICAL SERVICES	900.00 *
640229	SECRETARY OF STATE	OTHER PROF SERV	10.00 *
640230	SIEMENS INDUSTRY, INC. C/O CITIBANK (BLDG TECH)	MAINT-SERV CONTRACTS	1,527.00 *
640231	SILVERSTRAND TECHNOLOGIES INC	NETWORKING SERVICES	485.90 *
640232	SPARKLETT'S	BOTTLED WATER	234.37 *
640233	STRADLING, YOCCA, CARLSON & RAUTH	LEGAL FEES	13,806.00 *
640234	SUN BADGE COMPANY	UNIFORMS	1,364.02 *
640235	SUNBELT RENTALS	HEAVY EQUIP RENTAL	785.29 *
640236	THE RACK DEPOT INC	WHSE INVENTORY	9,081.17 *
640237	THOMSON REUTERS- WEST C/O WEST PAYMENT CENTER	DUES/MEMBERSHIPS	545.70 *
640238	TURNOUT MAINTENANCE COMPANY	REPAIRS-FURN/MACH/EQ	32.00 *
640239	U.S. ARMOR CORP.	UNIFORMS	10,792.28 *
640240	UNIFIRST CORP	LAUNDRY SERVICES	921.64 *
640241	VISION MARKING DEVICES	OTHER PROF SUPPLIES	452.88
		OFFICE SUPPLIES/EXP	58.48
			511.36 *
640242	VULCAN MATERIALS COMPANY WESTERN DIVISION	ASPHALT PRODUCTS	5,874.82 *
640243	GRAINGER	WHSE INVENTORY	644.20

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640244	WALTERS WHOLESALE ELECTRIC	ELECTRICAL SUPPLIES	25.67
		MAINT SUPP-TRAFF SIG	95.84
			765.71 *
		ELECTRICAL SUPPLIES	452.24
		PIPES/APPUTENANCES	195.75
		MAINT SUPP-TRAFF SIG	226.28
			874.27 *
640245	WATERLINE TECHNOLOGIES, INC.	LABORATORY CHEMICALS	789.37 *
640246	UNITED WATER WORKS, INC.	WHSE INVENTORY	6,409.66 *
640247	FERGUSON ENTERPRISES, INC #1350	PIPES/APPUTENANCES	372.63 *
640248	WESTCOAST MUFFLER	REPAIRS-FURN/MACH/EQ	517.20 *
640249	WOODRUFF, SPRADLIN & SMART A PROFESSIONAL CORP	LEGAL FEES	4,169.23 *
640250	ZEPHYR TURFCARE EQUIPMENT	HEAVY EQUIP RENTAL	942.65 *
640251	SMITH, LACRETIA	DEPOSIT REFUNDS	500.00 *
640252	TILLEY CRANE INSPECTION SERVICE	MOTOR VEHICLE MAINT	1,996.00 *
640253	COPWARE, INC.	BOOKS/SUBS/CASSETTES	3,870.00 *
640254	INGLIS PET HOTEL	CANINE EXPENSES	548.99 *
640255	MJ ELLS CONSTRUCTION INC	MAINT-SERV CONTRACTS	3,240.00 *
640256	APWA	DUES/MEMBERSHIPS	245.00 *
640257	SUNRISE USA INC.	DEPOSIT REFUNDS	850.00
		ROOM FEE REFUND	-31.00
			819.00 *
640258	RODRIGUEZ, YESENIA	DEPOSIT REFUNDS	500.00 *
640259	VU, JANICE	HSHLD EQUIP/SUPPLIES	10.77
		OFFICE SUPPLIES/EXP	15.07

PAGE TOTAL FOR "\*" LINES = 26,559.71

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640260	FERNANDO, PAUL	OTHER REC/CULT SUPP	38.76
640261	ARCIGA, MARLENE		64.60 *
640262	JOHNSON, CARMEN	DEPOSIT REFUNDS	75.00 *
640263	ZENEKA, ROY	DEPOSIT REFUNDS	75.00 *
640264	AGPALSA, YOLANDA	DEPOSIT REFUNDS	45.00 *
640265	FINISH LINE CONCRETE	DEPOSIT REFUNDS	100.00 *
		ISSUANCE FEES REFUND	50.00
		STR PERMIT REFUND	100.00
			150.00 *
640266	LIPARI, BRANDEN	DEPOSIT REFUNDS	435.00 *
640267	JULIARTTE	OTHER PROF SERV	350.00 *
640268	DTNTech MARKETING	UNIFORMS	256.45
		OTHER CLOTHING ITEMS	638.24
			894.69 *
640269	DEPT OF TRANSPORTATION	MAINT-SERV CONTRACTS	160.06 *
640270	SARMIENTO, ADRIAN	SAFETY EQ/SUPPLIES	205.76 *
640271	FERTAL, JASON	TUITION REIMB	322.00 *
640272	OTC BRANDS, INC ORIENTAL TRADING	OTHER REC/CULT SUPP	420.96 *
640273	TIM HOGAN GRAPHICS	PRINTING	1,039.52
		OTHER PROF SERV	4,909.09
			5,948.61 *
640274	WESTERN WATER WORKS	WHSE INVENTORY	9,087.26 *
640275	S&S WORLDWIDE INC	OFFICE SUPPLIES/EXP	25.85 *
640276	ST COLUMBAN CATHOLIC CHURCH	DEPOSIT REFUNDS	100.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640277	MCFADDEN DALE INDUSTRIAL HARDWARE	HARDWARE	283.37 *
640278	COUNTS, TOM	TUITION REIMB	233.30 *
640279	NATIONAL BUSINESS FURNITURE	MINOR OFFICE FURN/EQ MINOR FURN/EQUIP	466.37 1,774.30 2,240.67 *
640280	CITY OF SANTA ANA M-13 20 CIVIC CENTER PLAZA	ELECTRICITY TRAFFIC SIGNAL MAINT	507.25 952.17 1,459.42 *
640281	CAHA	DUES/MEMBERSHIPS	900.00 *
640282	ALLAN HANCOCK COLLEGE	TUITION/TRAINING	2,512.26 *
640283	ADVANCED CAR CARE INC	TIRES/TUBES	1,880.16 *
640284	O'REILLY AUTO PARTS	MOTOR VEH PARTS OTHER CONST SUPPLIES	2,281.02 8.28 2,289.30 *
640285	CITY OF ORANGE ACCOUNTS RECEIVABLE	ELECTRICITY TRAFFIC SIGNAL MAINT	166.74 141.75 308.49 *
640286	IMPERIAL SPRINKLER SUPPLY INC	WHSE INVENTORY	1,571.19 *
640287	LEXISNEXIS RISK SOLUTIONS ACCOUNT #1008503	BOOKS/SUBS/CASSETTES	552.75 *
640288	LOZANO, WENDY	DEPOSIT REFUNDS	500.00 *
640289	GOLDEN STAR TECHNOLOGY, INC. DBA: GST	MINOR FURN/EQUIP MONITORED EQUIP	892.28 658.98 1,551.26 *
640290	L.A. STEELCRAFT PRODUCTS INC.	HARDWARE	952.04 *
640291	B.L. WALLACE DISTRIBUTOR, INC.	MAINT SUPP-TRAFF SIG	2,556.79 *
640292	GMS AUTOGLASS	REPAIRS-FURN/MACH/EQ	497.44 *
640293	KAYE'S KITCHEN	FOOD	110.00 *

PAGE TOTAL FOR "\*" LINES = 20,398.44

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640294	AMERINATIONAL COMMUNITY SERVICES, INC.	OTHER PROF SERV NSP HOME IMP GRANT	148.32 42.00 190.32 *
640295	VU, KHANG	CELL PHONE/BEEPER	267.40 *
640296	ORTEGA, DAVID	TUITION REIMB	657.13 *
640297	AUDIO DYNAMIX	OTHER PROF SERV	258.47 *
640298	MONTGOMERY, JESSE	TUITION REIMB	306.94 *
640299	LABSOURCE, INC.	WHSE INVENTORY	325.00 *
640300	AMERICAN ASPHALT SOUTH, INC.	MAINT-SERV CONTRACTS	3,850.00 *
640301	ISERI, ALEXANDER	OTHER PROF SERV	1,450.00 *
640302	DEPARTMENT OF JUSTICE ACCOUNTING	LIFESCAN FEE-DOJ	768.00 *
640303	SIGNARAMA	OTHER PROF SERV	290.50 *
640304	GOLDEN AUTO BODY	REPAIRS-FURN/MACH/EQ	391.69 *
640305	DOAN, HIEP THI	RENT SUBSIDY	2,528.00 *
W2196	WELLS FARGO BANK, NA	REV & VOID	-1,203,055.00 *
W2202	CALIFORNIA STATE DISBURSEMENT UNIT	COUNTY OF ORANGE	3,303.90 *
W2203	DELTA DENTAL OF CALIFORNIA	SELF-INS ADMN	2,835.42 *
W2204	MARYLAND CHILD SUPPORT	COUNTY OF ORANGE	343.38 *
W2205	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	PENSION PAYMENT	1,184,087.00 *
W2206	UNION BANK-COMM CUSTOMER SERV UNIT, GOVT ACCOUNTS	BANK FEES PAPER/ENVELOPES	2,786.56 1,524.20 4,310.76 *
W2207	UNION BANK-COMM CUSTOMER SERV UNIT, GOVT ACCOUNTS	BANK FEES	2,240.98 *

PAGE TOTAL FOR "\*" LINES = 5,349.89

WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/27/18

WARRANT

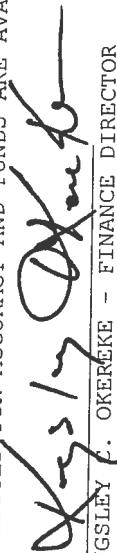
VENDOR

DESCRIPTION

AMOUNT

FINAL TOTAL 1,429,707.35 \*

DEMANDS #640046 - 640305 AND WIRES W2202 - W2207 AS PRESENTED IN THE WARRANT REGISTER SUBMITTED TO THE GARDEN GROVE CITY COUNCIL JUNE 27, 2018, HAVE BEEN AUDITED FOR ACCURACY AND FUNDS ARE AVAILABLE FOR PAYMENT THEREOF

  
KINGSLEY P. OKEREKE - FINANCE DIRECTOR



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
134185	REV & VOID	WATER CLOSING BILL REFUND	-47.80 *
136952	REV & VOID	WATER CLOSING BILL REFUND	-122.91 *
140816	REV & VOID	WATER CLOSING BILL REFUND	-18.70 *
141435	REV & VOID	WATER CLOSING BILL REFUND	-62.33 *
146802	REV & VOID	WATER CLOSING BILL REFUND	-40.97 *
152131	REV & VOID	WATER CLOSING BILL REFUND	-77.39 *
320741	PUBLIC AGENCY TRAINING COUNCIL	REV & VOID	-295.00 *
320763	REV & VOID	WATER CLOSING BILL REFUND	-41.70 *
320767	REV & VOID	WATER CLOSING BILL REFUND	-25.16 *
320777	REV & VOID	WATER CLOSING BILL REFUND	-146.35 *
320780	REV & VOID	WATER CLOSING BILL REFUND	-41.24 *
320791	REV & VOID	WATER CLOSING BILL REFUND	-46.73 *
320797	REV & VOID	WATER CLOSING BILL REFUND	-25.62 *
320799	REV & VOID	WATER CLOSING BILL REFUND	-45.82 *
320805	REV & VOID	WATER CLOSING BILL REFUND	-22.17 *
320842	REV & VOID	WATER CLOSING BILL REFUND	-57.96 *
320869	REV & VOID	WATER CLOSING BILL REFUND	-21.45 *
322341	AJ'S CUSTOM PICNICS	REV & VOID	-250.00 *
322362	GERARD, DARREN	REV & VOID	-169.11 *
322728	COUNTY OF ORANGE	REV & VOID	-250.00 *
323186	HUYNH, SABRINA	REV & VOID	-763.00 *
323902	REV & VOID	WATER CLOSING BILL REFUND	-87.01 *

PAGE TOTAL FOR "\*" LINES = -2,658.42

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
323903	REV & VOID	WATER CLOSING BILL REFUND	-70.00 *
323913	REV & VOID	WATER CLOSING BILL REFUND	-59.72 *
323917	REV & VOID	WATER CLOSING BILL REFUND	-28.97 *
323929	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
323941	REV & VOID	WATER CLOSING BILL REFUND	-106.22 *
323945	REV & VOID	WATER CLOSING BILL REFUND	-31.91 *
323946	REV & VOID	WATER CLOSING BILL REFUND	-44.90 *
323952	REV & VOID	WATER CLOSING BILL REFUND	-43.46 *
323953	REV & VOID	WATER CLOSING BILL REFUND	-20.16 *
323955	REV & VOID	WATER CLOSING BILL REFUND	-85.00 *
323956	REV & VOID	WATER CLOSING BILL REFUND	-21.53 *
323967	REV & VOID	WATER CLOSING BILL REFUND	-44.98 *
323997	REV & VOID	WATER CLOSING BILL REFUND	-40.17 *
324010	REV & VOID	WATER CLOSING BILL REFUND	-35.02 *
324288	REV & VOID	WATER CLOSING BILL REFUND	-20.91 *
324294	REV & VOID	WATER CLOSING BILL REFUND	-53.78 *
324310	REV & VOID	WATER CLOSING BILL REFUND	-41.30 *
324324	REV & VOID	WATER CLOSING BILL REFUND	-43.23 *
324331	REV & VOID	WATER CLOSING BILL REFUND	-25.56 *
324444	LE, JIMMY	REV & VOID	-246.00 *
324528	JERRY ECKERT P J'S CREATIVE CATERING	REV & VOID	-1,500.00 *
325696	SACRAMENTO HOUSING	REV & VOID	-758.06 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
326052	BEST OF THE BEST	REV & VOID	-194.79 *
326448	PRIME TRUCK TIRE SERVICE	REV & VOID	-880.00 *
327509	CASA LA PALMA APARTMENTS Attn: Leasing Office	REV & VOID	-591.00 *
330165	REV & VOID	WATER CLOSING BILL REFUND	-68.18 *
330167	REV & VOID	WATER CLOSING BILL REFUND	-75.96 *
330168	REV & VOID	WATER CLOSING BILL REFUND	-27.36 *
330172	REV & VOID	WATER CLOSING BILL REFUND	-39.05 *
330185	REV & VOID	WATER CLOSING BILL REFUND	-25.83 *
330187	REV & VOID	WATER CLOSING BILL REFUND	-23.70 *
330200	REV & VOID	WATER CLOSING BILL REFUND	-36.64 *
330202	REV & VOID	WATER CLOSING BILL REFUND	-42.21 *
330216	REV & VOID	WATER CLOSING BILL REFUND	-73.66 *
330223	REV & VOID	WATER CLOSING BILL REFUND	-22.40 *
330226	REV & VOID	WATER CLOSING BILL REFUND	-53.50 *
330237	REV & VOID	WATER CLOSING BILL REFUND	-31.19 *
330238	REV & VOID	WATER CLOSING BILL REFUND	-45.94 *
330492	DEPT OF JUSTICE	REV & VOID	-684.00 *
332099	ORANGE COAST FENDING ACADEMY	REV & VOID	-50.40 *
332572	REV & VOID	WATER CLOSING BILL REFUND	-55.69 *
332577	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
332593	REV & VOID	WATER CLOSING BILL REFUND	-49.60 *
332633	REV & VOID	WATER CLOSING BILL REFUND	-50.93 *

PAGE TOTAL FOR "\*" LINES = -3,177.03

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
332635	REV & VOID	WATER CLOSING BILL REFUND	-35.92 *
332644	REV & VOID	WATER CLOSING BILL REFUND	-25.36 *
332647	REV & VOID	WATER CLOSING BILL REFUND	-37.88 *
332661	REV & VOID	WATER CLOSING BILL REFUND	-44.26 *
332670	REV & VOID	WATER CLOSING BILL REFUND	-49.98 *
332685	REV & VOID	WATER CLOSING BILL REFUND	-46.57 *
332691	REV & VOID	WATER CLOSING BILL REFUND	-23.90 *
332692	REV & VOID	WATER CLOSING BILL REFUND	-22.23 *
332813	NGUYEN, KATELYNE	REV & VOID	-818.00 *
334095	BRENTWOOD VILLAGE HOMEOWNER'S ASSOCIATION	REV & VOID	-100.00 *
334323	V.I.P. KAWASAKI	REV & VOID	-564.14 *
336022	ANAYA, MIREYA	REV & VOID	-224.00 *
336163	NATIONAL PURCHASING INSTITUTE, INC.	REV & VOID	-190.00 *
336181	U.S. TOY CO.	REV & VOID	-307.74 *
336225	COLOMBEL, TOM J.	REV & VOID	-40.32 *
336386	REV & VOID	WATER CLOSING BILL REFUND	-20.66 *
336387	REV & VOID	WATER CLOSING BILL REFUND	-42.67 *
336412	REV & VOID	WATER CLOSING BILL REFUND	-70.00 *
336420	REV & VOID	WATER CLOSING BILL REFUND	-71.95 *
336423	REV & VOID	WATER CLOSING BILL REFUND	-46.22 *
336435	REV & VOID	WATER CLOSING BILL REFUND	-29.70 *
336438	REV & VOID	WATER CLOSING BILL REFUND	-56.93 *

PAGE TOTAL FOR "\*" LINES = -2,868.43

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
336785	STANDROD, DENNIS	REV & VOID	-605.00 *
336923	DELAGARZA, JOSHUA	REV & VOID	-60.00 *
338215	TAUMAOR, MASANIAI	REV & VOID	-275.00 *
344935	ALARCON, JOE	REV & VOID	-531.15 *
346256	REV & VOID	WATER CLOSING BILL REFUND	-23.80 *
346263	REV & VOID	WATER CLOSING BILL REFUND	-49.24 *
346268	REV & VOID	WATER CLOSING BILL REFUND	-34.48 *
346269	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
346282	REV & VOID	WATER CLOSING BILL REFUND	-35.53 *
346285	REV & VOID	WATER CLOSING BILL REFUND	-42.78 *
346290	REV & VOID	WATER CLOSING BILL REFUND	-42.45 *
346295	REV & VOID	WATER CLOSING BILL REFUND	-47.97 *
346297	REV & VOID	WATER CLOSING BILL REFUND	-30.22 *
346300	REV & VOID	WATER CLOSING BILL REFUND	-20.76 *
346312	REV & VOID	WATER CLOSING BILL REFUND	-22.48 *
346313	REV & VOID	WATER CLOSING BILL REFUND	-49.44 *
346314	REV & VOID	WATER CLOSING BILL REFUND	-39.84 *
346315	REV & VOID	WATER CLOSING BILL REFUND	-52.15 *
346324	REV & VOID	WATER CLOSING BILL REFUND	-28.50 *
346340	REV & VOID	WATER CLOSING BILL REFUND	-27.95 *
346343	REV & VOID	WATER CLOSING BILL REFUND	-41.49 *
346345	REV & VOID	WATER CLOSING BILL REFUND	-48.22 *

PAGE TOTAL FOR "\*" LINES = -2,163.45

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
346360	REV & VOID	WATER CLOSING BILL REFUND	-25.81 *
346361	REV & VOID	WATER CLOSING BILL REFUND	-79.44 *
346367	REV & VOID	WATER CLOSING BILL REFUND	-25.85 *
346368	REV & VOID	WATER CLOSING BILL REFUND	-44.81 *
346379	REV & VOID	WATER CLOSING BILL REFUND	-81.77 *
346380	REV & VOID	WATER CLOSING BILL REFUND	-40.56 *
346383	REV & VOID	WATER CLOSING BILL REFUND	-31.51 *
346389	REV & VOID	WATER CLOSING BILL REFUND	-54.66 *
346392	REV & VOID	WATER CLOSING BILL REFUND	-25.60 *
346402	REV & VOID	WATER CLOSING BILL REFUND	-120.05 *
346414	REV & VOID	WATER CLOSING BILL REFUND	-26.30 *
346443	REV & VOID	WATER CLOSING BILL REFUND	-55.10 *
346461	REV & VOID	WATER CLOSING BILL REFUND	-46.92 *
346465	REV & VOID	WATER CLOSING BILL REFUND	-44.21 *
346469	REV & VOID	WATER CLOSING BILL REFUND	-38.48 *
346482	REV & VOID	WATER CLOSING BILL REFUND	-53.14 *
346801	ORANGE COUNTY SHERIFF CORONER DEPT.	REV & VOID	-250.00 *
346806	INSTITUTE OF VIETNAMESE STUDIES	REV & VOID	-500.00 *
347108	CHUNG, SEUNG NAM	REV & VOID	-343.66 *
347903	NGO, TUNG S	REV & VOID	-596.00 *
348638	POLICE TRNG CONSULTANTS, LLC	REV & VOID	-1,000.00 *
348778	REV & VOID	WATER CLOSING BILL REFUND	-79.22 *

PAGE TOTAL FOR "\*" LINES = -3,563.09

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
348780	REV & VOID	WATER CLOSING BILL REFUND	-30.28 *
348801	REV & VOID	WATER CLOSING BILL REFUND	-35.73 *
348809	REV & VOID	WATER CLOSING BILL REFUND	-55.19 *
348815	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
348824	REV & VOID	WATER CLOSING BILL REFUND	-21.31 *
348828	REV & VOID	WATER CLOSING BILL REFUND	-132.32 *
348842	REV & VOID	WATER CLOSING BILL REFUND	-42.95 *
348843	REV & VOID	WATER CLOSING BILL REFUND	-62.51 *
348844	REV & VOID	WATER CLOSING BILL REFUND	-30.68 *
348846	REV & VOID	WATER CLOSING BILL REFUND	-117.28 *
348848	REV & VOID	WATER CLOSING BILL REFUND	-29.56 *
348860	REV & VOID	WATER CLOSING BILL REFUND	-20.99 *
348862	REV & VOID	WATER CLOSING BILL REFUND	-39.21 *
348874	REV & VOID	WATER CLOSING BILL REFUND	-21.53 *
348878	REV & VOID	WATER CLOSING BILL REFUND	-43.61 *
349092	SOUTH COAST A.Q.M.D.	REV & VOID	-500.00 *
350183	PHAM, VAN S	REV & VOID	-878.00 *
350849	LA CROIX, REBECCA	REV & VOID	-200.00 *
352785	SAC, FIRE OFFICER TRAINING LINDA CHADWICK, RM. A-113	REV & VOID	-140.00 *
352874	CLEARLS LANCASTER SHERIFF STATION	REV & VOID	-25.00 *
354360	TRAN, TIEN	REV & VOID	-1,253.00 *
354512	REV & VOID	WATER CLOSING BILL REFUND	-36.77 *

PAGE TOTAL FOR "\*" LINES = -3,770.92

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
354524	REV & VOID	WATER CLOSING BILL REFUND	-30.66 *
354528	REV & VOID	WATER CLOSING BILL REFUND	-58.83 *
354529	REV & VOID	WATER CLOSING BILL REFUND	-28.13 *
354539	REV & VOID	WATER CLOSING BILL REFUND	-41.89 *
354541	REV & VOID	WATER CLOSING BILL REFUND	-35.28 *
354542	REV & VOID	WATER CLOSING BILL REFUND	-43.11 *
354553	REV & VOID	WATER CLOSING BILL REFUND	-43.69 *
354555	REV & VOID	WATER CLOSING BILL REFUND	-23.71 *
354557	REV & VOID	WATER CLOSING BILL REFUND	-20.15 *
354559	REV & VOID	WATER CLOSING BILL REFUND	-29.88 *
354560	REV & VOID	WATER CLOSING BILL REFUND	-29.07 *
354568	REV & VOID	WATER CLOSING BILL REFUND	-36.48 *
354569	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
354574	REV & VOID	WATER CLOSING BILL REFUND	-24.47 *
354576	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
354595	REV & VOID	WATER CLOSING BILL REFUND	-35.07 *
354619	REV & VOID	WATER CLOSING BILL REFUND	-35.46 *
354630	REV & VOID	WATER CLOSING BILL REFUND	-34.72 *
354645	REV & VOID	WATER CLOSING BILL REFUND	-30.98 *
355056	SUPERCARGERS TONER, INC	REV & VOID	-153.98 *
355090	NGUYEN, TAM	REV & VOID	-55.00 *
355091	#9 GIFT SHOP MAI NGUYEN	REV & VOID	-36.96 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
355425	SAFETY SOURCE	REV & VOID	-125.10 *
355726	REV & VOID	WATER CLOSING BILL REFUND	-21.31 *
355734	REV & VOID	WATER CLOSING BILL REFUND	-22.22 *
355735	REV & VOID	WATER CLOSING BILL REFUND	-41.74 *
355751	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
355755	REV & VOID	WATER CLOSING BILL REFUND	-26.91 *
355770	REV & VOID	WATER CLOSING BILL REFUND	-52.64 *
355775	REV & VOID	WATER CLOSING BILL REFUND	-42.46 *
356857	VU, JULIE H	REV & VOID	-188.00 *
357307	ORANGE COAST FENDING ACADEMY	REV & VOID	-59.22 *
357753	COLLINS, CINDY	REV & VOID	-500.00 *
357839	SOROPTIMIST INTERNATIONAL OF GARDEN GROVE	REV & VOID	-250.00 *
358955	REV & VOID	WATER CLOSING BILL REFUND	-20.52 *
358958	REV & VOID	WATER CLOSING BILL REFUND	-21.45 *
358970	REV & VOID	WATER CLOSING BILL REFUND	-29.33 *
358978	REV & VOID	WATER CLOSING BILL REFUND	-48.86 *
358986	REV & VOID	WATER CLOSING BILL REFUND	-34.63 *
358993	REV & VOID	WATER CLOSING BILL REFUND	-33.62 *
358994	REV & VOID	WATER CLOSING BILL REFUND	-70.04 *
358995	REV & VOID	WATER CLOSING BILL REFUND	-26.52 *
359005	REV & VOID	WATER CLOSING BILL REFUND	-170.35 *
359009	REV & VOID	WATER CLOSING BILL REFUND	-59.23 *

PAGE TOTAL FOR "\*" LINES = -1,899.15

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
360997	REV & VOID	WATER CLOSING BILL REFUND	-36.75 *
361000	REV & VOID	WATER CLOSING BILL REFUND	-35.52 *
361886	ORANGE COUNTY NEWS	REV & VOID	-76.12 *
361974	BRENTWOOD VILLAGE HOMEOWNER'S ASSOCIATION	REV & VOID	-100.00 *
361999	REV & VOID	WATER CLOSING BILL REFUND	-24.92 *
362006	REV & VOID	WATER CLOSING BILL REFUND	-20.93 *
362010	REV & VOID	WATER CLOSING BILL REFUND	-22.69 *
362014	REV & VOID	WATER CLOSING BILL REFUND	-76.43 *
362026	REV & VOID	WATER CLOSING BILL REFUND	-37.79 *
362027	REV & VOID	WATER CLOSING BILL REFUND	-135.43 *
362041	REV & VOID	WATER CLOSING BILL REFUND	-27.89 *
362042	REV & VOID	WATER CLOSING BILL REFUND	-44.55 *
362043	REV & VOID	WATER CLOSING BILL REFUND	-23.65 *
362046	REV & VOID	WATER CLOSING BILL REFUND	-26.62 *
362049	REV & VOID	WATER CLOSING BILL REFUND	-38.30 *
362054	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
362056	REV & VOID	WATER CLOSING BILL REFUND	-21.19 *
362057	REV & VOID	WATER CLOSING BILL REFUND	-51.46 *
362060	REV & VOID	WATER CLOSING BILL REFUND	-44.32 *
362063	REV & VOID	WATER CLOSING BILL REFUND	-51.62 *
362157	NGUYEN, BAN NGOC	REV & VOID	-54.00 *
363208	ALAN'S LAWN AND GARDEN CENTER INC.	REV & VOID	-233.15 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
363210	ANAHEIM REGIONAL MEDICAL CENTER	REV & VOID	-650.00 *
363211	APPLE ONE EMPLOYMENT SERVICES	REV & VOID	-3,304.38 *
363212	CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC.	REV & VOID	-3,507.42 *
363215	THE SHERWIN-WILLIAMS CO DBA FRAZEE PAINTS	REV & VOID	-26.88 *
363216	FRYE SIGN CO	REV & VOID	-722.03 *
363217	G E CAPITAL CORP	REV & VOID	-1,036.33 *
363218	KEYSER/MARSTON ASSOCIATES INC	REV & VOID	-852.50 *
363677	ST PAUL'S LUTHERAN CHURCH	REV & VOID	-500.00 *
365702	CALLEROS, ALBERT	REV & VOID	-890.82 *
367329	LOS ANGELES COUNTY SHERIFF'S DEPT	REV & VOID	-555.90 *
367451	ORANGE COUNTY SHERIFF-WEST DIV LEVYING OFFICER	REV & VOID	-158.26 *
368053	REV & VOID	WATER CLOSING BILL REFUND	-40.00 *
368055	REV & VOID	WATER CLOSING BILL REFUND	-50.72 *
368058	REV & VOID	WATER CLOSING BILL REFUND	-25.10 *
368060	REV & VOID	WATER CLOSING BILL REFUND	-38.17 *
368061	REV & VOID	WATER CLOSING BILL REFUND	-20.07 *
368062	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
368067	REV & VOID	WATER CLOSING BILL REFUND	-50.55 *
368094	REV & VOID	WATER CLOSING BILL REFUND	-33.84 *
368098	REV & VOID	WATER CLOSING BILL REFUND	-22.27 *
368099	REV & VOID	WATER CLOSING BILL REFUND	-41.06 *
368101	REV & VOID	WATER CLOSING BILL REFUND	-21.44 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
368115	REV & VOID	WATER CLOSING BILL REFUND	-36.71 *
368134	REV & VOID	WATER CLOSING BILL REFUND	-23.13 *
368135	REV & VOID	WATER CLOSING BILL REFUND	-36.45 *
368138	REV & VOID	WATER CLOSING BILL REFUND	-55.00 *
368162	REV & VOID	WATER CLOSING BILL REFUND	-362.75 *
368163	REV & VOID	WATER CLOSING BILL REFUND	-50.15 *
368172	REV & VOID	WATER CLOSING BILL REFUND	-31.91 *
368176	REV & VOID	WATER CLOSING BILL REFUND	-39.51 *
368178	REV & VOID	WATER CLOSING BILL REFUND	-42.30 *
368887	NGO, TUNG S	REV & VOID	-632.00 *
369499	BENITEZ, VIRGINIA SOSA	REV & VOID	-60.80 *
369808	OCTMA ORANGE PD & RENEE NICHOLSON	REV & VOID	-210.00 *
370681	REV & VOID	WATER CLOSING BILL REFUND	-56.06 *
370683	REV & VOID	WATER CLOSING BILL REFUND	-34.32 *
370688	REV & VOID	WATER CLOSING BILL REFUND	-60.03 *
370718	REV & VOID	WATER CLOSING BILL REFUND	-21.49 *
370724	REV & VOID	WATER CLOSING BILL REFUND	-20.01 *
371567	SCOTT, LONNIE M C/O PACIFIC CITY PROP. INC	REV & VOID	-851.00 *
371700	URANGO, ALEX	REV & VOID	-536.00 *
371701	V W PROPERTY	REV & VOID	-2,567.00 *
372568	CPCA	REV & VOID	-240.00 *
372586	UNITED STATES PLASTIC CORP.	REV & VOID	-46.91 *

PAGE TOTAL FOR "\*" LINES = -6,013.53

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
372817	REV & VOID	WATER CLOSING BILL REFUND	-108.61 *
372832	REV & VOID	WATER CLOSING BILL REFUND	-117.64 *
372833	REV & VOID	WATER CLOSING BILL REFUND	-31.25 *
374162	COOK*, JAMES A.	REV & VOID	-310.00 *
374243	COUNTY OF ORANGE COUNTY PROPERTY PERMITS	REV & VOID	-100.00 *
374268	CBIA	REV & VOID	-570.00 *
374278	ERHART'S CATERING	REV & VOID	-807.23 *
374437	SHILATI INTERNATIONAL CORP (SHAWN SHILATI)	REV & VOID	-260.19 *
374947	REV & VOID	WATER CLOSING BILL REFUND	-44.90 *
375134	DALE APARTMENTS LLC C/O WESTERN INTERNATIONAL PROP	REV & VOID	-1,542.00 *
375456	LEE, WILLIAM	REV & VOID	-1,249.00 *
376159	*WILSON, EDWIN P	REV & VOID	-78.54 *
377428	NGUYEN, KATELYNE	REV & VOID	-1,061.00 *
378139	REV & VOID	WATER CLOSING BILL REFUND	-25.10 *
378142	REV & VOID	WATER CLOSING BILL REFUND	-36.01 *
378149	REV & VOID	WATER CLOSING BILL REFUND	-27.11 *
378471	GARDEN GROVE UNIFIED SCHOOL DIST	REV & VOID	-204.00 *
378486	ORANGE COUNTY SHERIFF COMMUNICATION DIVISION	REV & VOID	-422.73 *
378668	REV & VOID	WATER CLOSING BILL REFUND	-46.73 *
378673	REV & VOID	WATER CLOSING BILL REFUND	-57.64 *
378689	REV & VOID	WATER CLOSING BILL REFUND	-30.52 *
378695	REV & VOID	WATER CLOSING BILL REFUND	-47.60 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
540525	REV & VOID	WATER CLOSING BILL REFUND	-100.71 *
540613	MEDINA, MARCEL	REV & VOID	-738.72 *
540935	LE, DON	REV & VOID	-533.00 *
541623	PACIFIC TRUCK EQUIPMENT INC	REV & VOID	-998.94 *
541682	LEI & YAN INVESTMENT LLC	REV & VOID	-956.00 *
541974	WESTERN EXTERMINATOR	REV & VOID	-145.00 *
542128	REV & VOID	WATER CLOSING BILL REFUND	-57.15 *
542133	REV & VOID	WATER CLOSING BILL REFUND	-19.42 *
542178	REV & VOID	WATER CLOSING BILL REFUND	-52.26 *
542195	REV & VOID	WATER CLOSING BILL REFUND	-29.21 *
542202	CITY OF SANTA ANA	REV & VOID	-500.00 *
543890	REV & VOID	WATER CLOSING BILL REFUND	-20.45 *
543897	REV & VOID	WATER CLOSING BILL REFUND	-40.82 *
543900	REV & VOID	WATER CLOSING BILL REFUND	-139.03 *
543906	REV & VOID	WATER CLOSING BILL REFUND	-49.64 *
543909	REV & VOID	WATER CLOSING BILL REFUND	-42.55 *
543914	REV & VOID	WATER CLOSING BILL REFUND	-61.71 *
543981	DEE ENGINEERING INC	REV & VOID	-100.00 *
545281	DEVOR, BRYAN W	REV & VOID	-40.00 *
545518	SO CALIF MUN ATHLETIC FEDERATION	REV & VOID	-240.00 *
545615	REV & VOID	WATER CLOSING BILL REFUND	-48.35 *
545616	REV & VOID	WATER CLOSING BILL REFUND	-48.14 *

PAGE TOTAL FOR "\*" LINES = -4,961.10

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
545639	REV & VOID	WATER CLOSING BILL REFUND	-27.76 *
545645	REV & VOID	WATER CLOSING BILL REFUND	-24.12 *
545674	EDWARDS, MARJORIE	REV & VOID	-239.40 *
545685	DEPT OF HOUSING & COMMUNITY DEV HCD	REV & VOID	-91.00 *
546690	THE WESTIN MISSION HILLS RESORT & SPA	REV & VOID	-407.92 *
546927	VPE	REV & VOID	-200.00 *
546983	PELRAC	REV & VOID	-894.00 *
547293	REV & VOID	WATER CLOSING BILL REFUND	-60.66 *
547294	REV & VOID	WATER CLOSING BILL REFUND	-44.56 *
547302	REV & VOID	WATER CLOSING BILL REFUND	-35.14 *
547304	REV & VOID	WATER CLOSING BILL REFUND	-22.56 *
547305	REV & VOID	WATER CLOSING BILL REFUND	-58.41 *
547306	REV & VOID	WATER CLOSING BILL REFUND	-201.23 *
547313	REV & VOID	WATER CLOSING BILL REFUND	-35.02 *
547325	REV & VOID	WATER CLOSING BILL REFUND	-63.59 *
547337	REV & VOID	WATER CLOSING BILL REFUND	-39.91 *
547338	REV & VOID	WATER CLOSING BILL REFUND	-119.38 *
548734	YVONNE TRAN	REV & VOID	-125.00 *
548905	REV & VOID	WATER CLOSING BILL REFUND	-23.11 *
548907	REV & VOID	WATER CLOSING BILL REFUND	-25.82 *
548911	REV & VOID	WATER CLOSING BILL REFUND	-50.99 *
548927	MIKE ABEYTA	REV & VOID	-59.56 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
548951	ELIZABETH PASTORES-PALFFY	REV & VOID	-100.00 *
548966	KARI TEAGUE	REV & VOID	-40.00 *
549117	ARJON, TIMOTEO	REV & VOID	-716.00 *
549862	CITY OF LOS ANGELES	REV & VOID	-1,088.00 *
550568	REV & VOID	WATER CLOSING BILL REFUND	-39.91 *
550582	REV & VOID	WATER CLOSING BILL REFUND	-46.13 *
550591	REV & VOID	WATER CLOSING BILL REFUND	-21.40 *
550596	REV & VOID	WATER CLOSING BILL REFUND	-19.93 *
550598	REV & VOID	WATER CLOSING BILL REFUND	-41.18 *
551358	THE MARQUIS	REV & VOID	-549.00 *
551785	CALIF FIRE CHIEFS ASSOC CFCA ANNUAL CONFERENCE	REV & VOID	-20.00 *
551987	ICC ORANGE EMPIRE CHAPTER	REV & VOID	-60.00 *
552060	REV & VOID	WATER CLOSING BILL REFUND	-85.79 *
552067	REV & VOID	WATER CLOSING BILL REFUND	-117.48 *
552072	REV & VOID	WATER CLOSING BILL REFUND	-34.65 *
552075	REV & VOID	WATER CLOSING BILL REFUND	-35.94 *
552103	REV & VOID	WATER CLOSING BILL REFUND	-52.89 *
552529	HOANG, LAN T	REV & VOID	-856.00 *
552638	MAH, LARRY	REV & VOID	-2,039.00 *
553074	ABC LEGAL SERVICES RAUL PERAZA	REV & VOID	-15.00 *
553446	VISION MARKING DEVICES	REV & VOID	-38.95 *
553666	REV & VOID	WATER CLOSING BILL REFUND	-52.71 *

PAGE TOTAL FOR "\*" LINES = -6,069.96



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
553675	REV & VOID	WATER CLOSING BILL REFUND	-23.99 *
553678	REV & VOID	WATER CLOSING BILL REFUND	-206.26 *
553708	REV & VOID	WATER CLOSING BILL REFUND	-18.96 *
553859	TRAINING FOR SAFETY INC	REV & VOID	-327.00 *
554679	MATT FORD	REV & VOID	-200.00 *
554801	TRAINING FOR SAFETY INC	REV & VOID	-327.00 *
554987	BIG RON'S AUTO BODY & PAINT, INC.	REV & VOID	-984.34 *
555272	REV & VOID	WATER CLOSING BILL REFUND	-50.00 *
555290	REV & VOID	WATER CLOSING BILL REFUND	-44.61 *
555298	REV & VOID	WATER CLOSING BILL REFUND	-72.64 *
556326	PLANNING DIRECTORS ASSOCIATION OF ORANGE COUNTY	REV & VOID	-165.00 *
556337	B&H PHTO- VIDEO, INC.	REV & VOID	-838.79 *
556429	REV & VOID	WATER CLOSING BILL REFUND	-15.54 *
556432	REV & VOID	WATER CLOSING BILL REFUND	-45.87 *
556433	REV & VOID	WATER CLOSING BILL REFUND	-47.82 *
556443	REV & VOID	WATER CLOSING BILL REFUND	-59.70 *
556444	REV & VOID	WATER CLOSING BILL REFUND	-16.88 *
556447	REV & VOID	WATER CLOSING BILL REFUND	-98.70 *
556448	REV & VOID	WATER CLOSING BILL REFUND	-20.18 *
556454	REV & VOID	WATER CLOSING BILL REFUND	-20.45 *
558916	REV & VOID	WATER CLOSING BILL REFUND	-47.43 *
558925	REV & VOID	WATER CLOSING BILL REFUND	-31.99 *

PAGE TOTAL FOR "\*" LINES = -3,663.15

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
558926	REV & VOID	WATER CLOSING BILL REFUND	-50.55 *
559836	VU, THU	REV & VOID	-1,514.00 *
560390	REV & VOID	WATER CLOSING BILL REFUND	-16.57 *
560394	REV & VOID	WATER CLOSING BILL REFUND	-41.29 *
560397	REV & VOID	WATER CLOSING BILL REFUND	-38.69 *
560408	REV & VOID	WATER CLOSING BILL REFUND	-84.27 *
560414	REV & VOID	WATER CLOSING BILL REFUND	-56.70 *
560418	REV & VOID	WATER CLOSING BILL REFUND	-53.03 *
560419	REV & VOID	WATER CLOSING BILL REFUND	-37.12 *
561366	LORDS CLEANERS AND LAUNDRY	REV & VOID	-170.00 *
561949	REV & VOID	WATER CLOSING BILL REFUND	-558.76 *
561950	REV & VOID	WATER CLOSING BILL REFUND	-79.02 *
561951	REV & VOID	WATER CLOSING BILL REFUND	-79.02 *
561961	REV & VOID	WATER CLOSING BILL REFUND	-54.27 *
561965	REV & VOID	WATER CLOSING BILL REFUND	-53.61 *
561983	REV & VOID	WATER CLOSING BILL REFUND	-40.11 *
561986	REV & VOID	WATER CLOSING BILL REFUND	-84.47 *
563184	IAAI, INC.	REV & VOID	-75.00 *
563482	REV & VOID	WATER CLOSING BILL REFUND	-36.54 *
563488	REV & VOID	WATER CLOSING BILL REFUND	-36.74 *
563492	REV & VOID	WATER CLOSING BILL REFUND	-26.03 *
563501	REV & VOID	WATER CLOSING BILL REFUND	-47.89 *

PAGE TOTAL FOR "\*" LINES = -3,233.68

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
563504	REV & VOID	WATER CLOSING BILL REFUND	-63.63 *
565452	SPRINT #1770	REV & VOID	-21.59 *
565765	PLUMBERS DEPOT INC.	REV & VOID	-117.08 *
565859	REV & VOID	WATER CLOSING BILL REFUND	-27.46 *
565869	REV & VOID	WATER CLOSING BILL REFUND	-39.16 *
565870	REV & VOID	WATER CLOSING BILL REFUND	-39.00 *
565876	REV & VOID	WATER CLOSING BILL REFUND	-39.65 *
566238	LO, DAVID	REV & VOID	-1,471.00 *
566344	NGUYEN, PHUC T	REV & VOID	-1,118.00 *
566412	PAGE, WELDON	REV & VOID	-819.00 *
567046	SPARKLETT'S	REV & VOID	-75.22 *
567361	REV & VOID	WATER CLOSING BILL REFUND	-60.54 *
567362	REV & VOID	WATER CLOSING BILL REFUND	-65.87 *
567395	REV & VOID	WATER CLOSING BILL REFUND	-20.00 *
567396	REV & VOID	WATER CLOSING BILL REFUND	-93.42 *
568440	CHARLESZETTA D. TAITE	REV & VOID	-500.00 *
568693	REYNOLDS, MICHAEL	REV & VOID	-130.00 *
568889	REV & VOID	WATER CLOSING BILL REFUND	-26.77 *
568892	REV & VOID	WATER CLOSING BILL REFUND	-45.68 *
568893	REV & VOID	WATER CLOSING BILL REFUND	-49.10 *
568900	REV & VOID	WATER CLOSING BILL REFUND	-27.62 *
568902	REV & VOID	WATER CLOSING BILL REFUND	-468.83 *

PAGE TOTAL FOR "\*" LINES = -5,318.62

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
568917	REV & VOID	WATER CLOSING BILL REFUND	-46.07 *
569916	SANTA ANA COLLEGE CRIMINAL JUSTICE ACADEMIES	REV & VOID	-208.00 *
570693	REV & VOID	WATER CLOSING BILL REFUND	-46.56 *
570704	REV & VOID	WATER CLOSING BILL REFUND	-20.38 *
570706	REV & VOID	WATER CLOSING BILL REFUND	-19.99 *
570708	REV & VOID	WATER CLOSING BILL REFUND	-22.09 *
570711	REV & VOID	WATER CLOSING BILL REFUND	-25.03 *
570715	REV & VOID	WATER CLOSING BILL REFUND	-123.74 *
570720	REV & VOID	WATER CLOSING BILL REFUND	-182.06 *
572359	REV & VOID	WATER CLOSING BILL REFUND	-145.33 *
572364	REV & VOID	WATER CLOSING BILL REFUND	-66.45 *
572365	REV & VOID	WATER CLOSING BILL REFUND	-63.43 *
572370	REV & VOID	WATER CLOSING BILL REFUND	-65.98 *
572378	REV & VOID	WATER CLOSING BILL REFUND	-70.00 *
572382	REV & VOID	WATER CLOSING BILL REFUND	-59.12 *
572383	REV & VOID	WATER CLOSING BILL REFUND	-121.92 *
572384	REV & VOID	WATER CLOSING BILL REFUND	-26.14 *
572404	REV & VOID	WATER CLOSING BILL REFUND	-22.49 *
572408	REV & VOID	WATER CLOSING BILL REFUND	-19.79 *
573089	PHAM, NGHIA	REV & VOID	-949.00 *
573958	MATT FORD	REV & VOID	-300.00 *
574275	REV & VOID	WATER CLOSING BILL REFUND	-59.88 *

PAGE TOTAL FOR "\*" LINES = -2,663.45

WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
574287	REV & VOID	WATER CLOSING BILL REFUND	-33.26 *
574292	REV & VOID	WATER CLOSING BILL REFUND	-88.15 *
574302	REV & VOID	WATER CLOSING BILL REFUND	-49.54 *
575520	REV & VOID	WATER CLOSING BILL REFUND	-22.10 *
575530	REV & VOID	WATER CLOSING BILL REFUND	-70.00 *
575550	REV & VOID	WATER CLOSING BILL REFUND	-32.83 *
575555	REV & VOID	WATER CLOSING BILL REFUND	-38.21 *
576271	PEREZ, DANIEL	REV & VOID	-761.00 *
577150	REV & VOID	WATER CLOSING BILL REFUND	-16.39 *
577164	REV & VOID	WATER CLOSING BILL REFUND	-21.98 *
577170	REV & VOID	WATER CLOSING BILL REFUND	-313.91 *
577175	REV & VOID	WATER CLOSING BILL REFUND	-49.14 *
577180	REV & VOID	WATER CLOSING BILL REFUND	-34.49 *
577182	REV & VOID	WATER CLOSING BILL REFUND	-85.07 *
577264	BAO NGUYEN FOR CONGRESS 2016	REV & VOID	-501.00 *
578778	REV & VOID	WATER CLOSING BILL REFUND	-32.75 *
578784	REV & VOID	WATER CLOSING BILL REFUND	-17.99 *
578787	REV & VOID	WATER CLOSING BILL REFUND	-222.51 *
578799	REV & VOID	WATER CLOSING BILL REFUND	-16.28 *
579308	NGUYEN, SHERRY LIEU	REV & VOID	-1,436.00 *
580104	WALTERS WHOLESALE ELECTRIC	REV & VOID	-1,264.47 *
580143	REV & VOID	WATER CLOSING BILL REFUND	-26.67 *

PAGE TOTAL FOR "\*" LINES = -5,133.74

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
580163	REV & VOID	WATER CLOSING BILL REFUND	-73.63 *
580164	REV & VOID	WATER CLOSING BILL REFUND	-63.80 *
580686	NGO, KIM	REV & VOID	-907.00 *
581283	EMERY*, SUSAN A.	REV & VOID	-37.26 *
581447	FALSE ALARM REDUCTION ASSN. C/O INNOVATIVE RESOURCES, LLC	REV & VOID	-450.00 *
581663	REV & VOID	WATER CLOSING BILL REFUND	-23.45 *
581664	REV & VOID	WATER CLOSING BILL REFUND	-23.05 *
581667	REV & VOID	WATER CLOSING BILL REFUND	-33.27 *
581668	REV & VOID	WATER CLOSING BILL REFUND	-17.87 *
581683	REV & VOID	WATER CLOSING BILL REFUND	-23.65 *
581686	REV & VOID	WATER CLOSING BILL REFUND	-19.82 *
581687	REV & VOID	WATER CLOSING BILL REFUND	-31.99 *
583349	O.C. COMMUNITY HOUSING CORP.	REV & VOID	-600.00 *
583936	REV & VOID	WATER CLOSING BILL REFUND	-83.42 *
583937	REV & VOID	WATER CLOSING BILL REFUND	-23.54 *
583942	REV & VOID	WATER CLOSING BILL REFUND	-37.13 *
583960	REV & VOID	WATER CLOSING BILL REFUND	-63.25 *
583961	REV & VOID	WATER CLOSING BILL REFUND	-85.73 *
583966	REV & VOID	WATER CLOSING BILL REFUND	-183.77 *
585416	REV & VOID	WATER CLOSING BILL REFUND	-90.36 *
585426	REV & VOID	WATER CLOSING BILL REFUND	-58.45 *
585422	REV & VOID	WATER CLOSING BILL REFUND	-27.51 *

PAGE TOTAL FOR "\*" LINES = -2,957.95

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
585432	REV & VOID	WATER CLOSING BILL REFUND	-54.14 *
585433	REV & VOID	WATER CLOSING BILL REFUND	-44.52 *
586192	VOLE, TINA NGA	REV & VOID	-1,390.00 *
586433	GBS LINENS	REV & VOID	-104.11 *
586932	REV & VOID	WATER CLOSING BILL REFUND	-35.51 *
586933	REV & VOID	WATER CLOSING BILL REFUND	-31.99 *
586935	REV & VOID	WATER CLOSING BILL REFUND	-49.26 *
586937	REV & VOID	WATER CLOSING BILL REFUND	-38.15 *
586952	REV & VOID	WATER CLOSING BILL REFUND	-34.70 *
586953	REV & VOID	WATER CLOSING BILL REFUND	-17.39 *
586960	REV & VOID	WATER CLOSING BILL REFUND	-23.79 *
586981	REV & VOID	WATER CLOSING BILL REFUND	-70.52 *
587165	CROWD CONTROL WAREHOUSE	REV & VOID	-384.70 *
588018	PRECISION SPEEDOMETER SERVICE	REV & VOID	-1,050.40 *
588628	REV & VOID	WATER CLOSING BILL REFUND	-50.99 *
588631	REV & VOID	WATER CLOSING BILL REFUND	-117.93 *
588633	REV & VOID	WATER CLOSING BILL REFUND	-103.83 *
588634	REV & VOID	WATER CLOSING BILL REFUND	-979.50 *
588644	REV & VOID	WATER CLOSING BILL REFUND	-39.91 *
591529	REV & VOID	WATER CLOSING BILL REFUND	-46.95 *
591554	REV & VOID	WATER CLOSING BILL REFUND	-29.53 *
593660	REV & VOID	WATER CLOSING BILL REFUND	-82.07 *

PAGE TOTAL FOR "\*" LINES = -4,779.89

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640095	CITY OF GARDEN GROVE-WORK COMP ACCT	REV & VOID	-228,238.76 *
640112	COUNTY RECORDER	REV & VOID	-145.00 *
640134	BRETT MEISLAHN	REV & VOID	-2,878.52 *
640139	GARDEN GROVE STRAWBERRY FESTIVAL ASSOCIATION	REV & VOID	-160.00 *
640140	SAN GABRIEL VALLEY ARSON TASK FORCE	REV & VOID	-112.00 *
640306	ACA COMPLIANCE SERVICES INC DBA CIMPLX COMPLIANCE SERVICES	OTHER PROF SERV	1,334.25 *
640307	CITY OF GARDEN GROVE-WORK COMP ACCT	SELF-INS CLAIMS	228,477.96 *
640308	REYNOLDS, MICHELLE	COUNTY OF ORANGE	461.54 *
640309	WASINGER, JEAN M.	COUNTY OF ORANGE	134.31 *
640310	INTERNAL REVENUE SERVICE	COUNTY OF ORANGE	37.50 *
640311	UNITED STATES TREASURY	COUNTY OF ORANGE	130.00 *
640312	SHANNON WAINWRIGHT	COUNTY OF ORANGE	553.85 *
640313	INFOSEND, INC.	OTHER PROF SERV	2,878.52 *
640314	GARDEN GROVE STRAWBERRY FESTIVAL ASSOCIATION	FACT:YTH ENRCH FOOD	112.00 160.00 272.00 *
640315	CPCA	DUES/MEMBERSHIPS	145.00 *
W2208	ANAHEIM/ORANGE COUNTY VISITOR & CONVENTION BUREAU	AMT DUE VCB	147,937.41 *
W2209	CITY OF GARDEN GROVE-LIABILITY ACCT	ACCURED LIAB CLAIMS LEGAL FEES MUN CLAIMS BD PMT	12,150.00 45,037.15 12,995.31 70,182.46 *
W2210	PUBLIC EMPLOYEES' RETIREMENT SYSTEM	PENSION PAYMENT	499,842.68 *
W2211	UNION BANK-COMM CUSTOMER SERV UNIT, GOVT ACCOUNTS	BANK FEES	1,967.92 *

PAGE TOTAL FOR "\*" LINES = 722,821.12



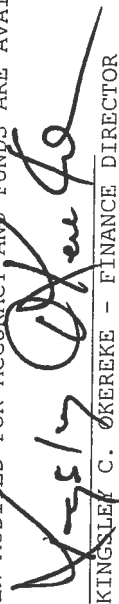
WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 06/28/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W2212	MUNICIPAL WATER DISTRICT OF ORANGE COUNTY	IMPORT WTR-MWDOC	408,546.75 *

PAGE TOTAL FOR "\*" LINES = 408,546.75

FINAL TOTAL 990,466.05 \*

DEMANDS #640306 - 640315 AND WIRES W2208 - W2212 AS PRESENTED IN THE WARRANT REGISTER SUBMITTED TO THE GARDEN GROVE CITY COUNCIL JUNE 28, 2018, HAVE BEEN AUDITED FOR ACCURACY AND FUNDS ARE AVAILABLE FOR PAYMENT THEREOF

  
KINGSLEY C. OKEREKE - FINANCE DIRECTOR

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640316	15915 LA FORGE ST WHITTIER LLC	RENT SUBSIDY	3,223.00 *
640317	2555 WEST WINSTON ROAD, LP PEBBLE COVE APARTMENTS	RENT SUBSIDY	1,916.00 *
640318	4MD MANAGEMENT, LLC	RENT SUBSIDY	2,120.00 *
640319	ADAMS, WILLIAM	RENT SUBSIDY	1,065.00 *
640320	ADVANCED GROUP 01-75, A CA LTD	RENT SUBSIDY	1,735.00 *
640321	ADVANTAGE PROPERTY MANAGEMENT	RENT SUBSIDY	658.00 *
640322	ALISO VIEJO 621, LP	RENT SUBSIDY	1,148.00 *
640323	ALPINE APTS	RENT SUBSIDY	5,908.00 *
640324	ANAHEIM REVITALIZATION II PART	RENT SUBSIDY	747.00 *
640325	ANAHEIM REVITALIZATION PARTNERS LP	RENT SUBSIDY	826.00 *
640326	AYERS, MARILISA BRADFORD	RENT SUBSIDY	690.00 *
640327	BAHIA VILLAGE MOBILEHOME PARK	RENT SUBSIDY	1,354.00 *
640328	BUI JR, RICHARD	RENT SUBSIDY	3,594.00 *
640329	BUI JR, RICHARD	RENT SUBSIDY	465.00 *
640330	BUI, JIMMY QUOC	RENT SUBSIDY	3,822.00 *
640331	BUI, LAI	RENT SUBSIDY	830.00 *
640332	BUI, LAN HUYNH NGOC	RENT SUBSIDY	834.00 *

WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640333	BUI, MINH Q	RENT SUBSIDY	2,547.00 *
640334	BUI, PHAT	RENT SUBSIDY	1,799.00 *
640335	BUI, SON MINH	RENT SUBSIDY	1,134.00 *
640336	BUI, SON VAN	RENT SUBSIDY	1,452.00 *
640337	BUI, TINH TIEN	RENT SUBSIDY	626.00 *
640338	CALKINS, RONALD	RENT SUBSIDY	1,134.00 *
640339	CHAMBERLAIN, DAVID T.	RENT SUBSIDY	1,309.00 *
640340	CHANTECLAIR APTS	RENT SUBSIDY	995.00 *
640341	CHEN, DAVID	RENT SUBSIDY	836.00 *
640342	CHOI, JOON	RENT SUBSIDY	4,074.00 *
640343	CHU, MEI-LING	RENT SUBSIDY	1,120.00 *
640344	CONCEPCION, RODRIGO	RENT SUBSIDY	927.00 *
640345	CONCORD MGMT LLC	RENT SUBSIDY	721.00 *
640346	COY, CHRISTINE OR FREEMAN, CYNTHIA	RENT SUBSIDY	1,038.00 *
640347	CRESTWOOD ON 7, LLC	RENT SUBSIDY	3,145.00 *
640348	CROCKETT, JACK	RENT SUBSIDY	3,805.00 *
640349	DAISY VI ASSOCIATES LTD	RENT SUBSIDY	4,922.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640350	DANG, STACY HOA TUOI	RENT SUBSIDY	1,597.00 *
640351	DIEP, HOI TUAN	RENT SUBSIDY	1,277.00 *
640352	DINH, HAI	RENT SUBSIDY	1,228.00 *
640353	DO, AI HANG NGUYEN	RENT SUBSIDY	1,664.00 *
640354	DO, DOMINIC HAU	RENT SUBSIDY	2,200.00 *
640355	DO, KIEN TRONG	RENT SUBSIDY	1,974.00 *
640356	DO, MINH TAM	RENT SUBSIDY	1,663.00 *
640357	DO, THUAN	RENT SUBSIDY	1,082.00 *
640358	DO, TIM	RENT SUBSIDY	2,295.00 *
640359	DOAN, DINH T	RENT SUBSIDY	1,414.00 *
640360	DOAN, HIEP THI	RENT SUBSIDY	906.00 *
640361	DONNER, HELMUT	RENT SUBSIDY	2,128.00 *
640362	DUONG, LAN	RENT SUBSIDY	1,308.00 *
640363	DUONG, CHI THI	RENT SUBSIDY	1,629.00 *
640364	EASTWIND PROPERTIES, LLC	RENT SUBSIDY	2,064.00 *
640365	EL CAMINO LU, LLC	RENT SUBSIDY	915.00 *
640366	EL PUEBLO APTS	RENT SUBSIDY	517.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640367	ELDEN EAST APARTMENTS	RENT SUBSIDY	1,061.00 *
640368	EMERALD GARDENS APT	RENT SUBSIDY	1,253.00 *
640369	ERILEX FAMILY L.P.	RENT SUBSIDY	949.00 *
640370	EUCLID PARK APTS	RENT SUBSIDY	1,814.00 *
640371	FAIRWAY MANOR, LP	RENT SUBSIDY	580.00 *
640372	FIELDS, FLOYD H	RENT SUBSIDY	1,385.00 *
640373	FRANCISCAN GARDENS APTS- ATTN: MANAGER	RENT SUBSIDY	14,769.00 *
640374	FULLWOOD, DALE A	RENT SUBSIDY	809.00 *
640375	GARCIA, ALBINO	RENT SUBSIDY	2,384.00 *
640376	GARDEN GROVE HOUSING AUTHORITY-ESCROW ACCT	HAP-ESCROW	10,507.00 *
640377	GEORGIAN APTS	RENT SUBSIDY	987.00 *
640378	GIA VU, INC	RENT SUBSIDY	1,684.00 *
640379	GREEN LOTUS GROUP, LLC	RENT SUBSIDY	1,618.00 *
640381	GROVE PARK LLC	RENT SUBSIDY	3,809.00 *
640382	HA OF THE COUNTY OF SAN DIEGO	PORTABILITY ADMIN	69.70 *
640382	HA OF THE COUNTY OF SAN DIEGO	RENT SUBSIDY	704.00 *
640383	HA, MANH MINH	RENT SUBSIDY	937.00 *
640384	HA, TRAN D	RENT SUBSIDY	2,523.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640385	HAN, LINDA	RENT SUBSIDY	1,757.00 *
640386	HANSEN, RICHARD D	RENT SUBSIDY	1,250.00 *
640387	HARA, KULJIT	RENT SUBSIDY	874.00 *
640388	HARA, STEVE	RENT SUBSIDY	2,655.00 *
640389	HAUPT PROPERTIES LLC	RENT SUBSIDY	741.00 *
640390	HERITAGE VILLAGE	RENT SUBSIDY	1,050.00 *
640391	HIROMOTO, JANE	RENT SUBSIDY	1,431.00 *
640392	HO, THOMAS P	RENT SUBSIDY	1,015.00 *
640393	HOANG, JAMES	RENT SUBSIDY	3,200.00 *
640394	HOANG, LIEN	RENT SUBSIDY	1,915.00 *
640395	HOFFMAN, NICK	RENT SUBSIDY	761.00 *
640396	HUYNH, NATALIE N	RENT SUBSIDY	2,056.00 *
640397	HUYNH, NGHIA TRUNG	RENT SUBSIDY	1,649.00 *
640398	HUYNH, TRANG	RENT SUBSIDY	2,835.00 *
640399	JEANNE JURADO TRUSTEE	RENT SUBSIDY	1,022.00 *
640400	JOHNSON, GARY RICHARD	RENT SUBSIDY	1,220.00 *
640401	JOHNSON, LINDA	RENT SUBSIDY	2,147.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640402	JOMARC PROPERTIES LTD	RENT SUBSIDY	7,116.00 *
640403	JOSEPH & KIM CORP.	RENT SUBSIDY	957.00 *
640404	KDF HERMOSA LP	RENT SUBSIDY	3,779.00 *
640405	KDF MALABAR LP	RENT SUBSIDY	28,848.00 *
640406	KDF QV LP	RENT SUBSIDY	1,165.00 *
640407	KDF SEA WIND LP	RENT SUBSIDY	1,049.00 *
640408	KEITH AND HOLLY CORPORATION	RENT SUBSIDY	2,562.00 *
640409	KINGMAN GARDENS CORPORATION	RENT SUBSIDY	1,258.00 *
640410	KLEIN, MARTIN	RENT SUBSIDY	750.00 *
640411	KOLSY, M I	RENT SUBSIDY	779.00 *
640412	KOTLYAR, ALISA	RENT SUBSIDY	1,057.00 *
640413	KUNZMAN, WILLIAM	RENT SUBSIDY	1,272.00 *
640414	LA PALMA APTS L.P.	RENT SUBSIDY	989.00 *
640415	LAM, CAM THI T	RENT SUBSIDY	574.00 *
640416	LAM, HUNG	RENT SUBSIDY	3,494.00 *
640417	LAS FLORES APARTMENTS	RENT SUBSIDY	819.00 *
640418	LE FAMILY TRUST	RENT SUBSIDY	2,132.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640419	LE, BILL B.Q.	RENT SUBSIDY	1,089.00 *
640420	LE, DANIEL	RENT SUBSIDY	1,328.00 *
640421	LE, DON	RENT SUBSIDY	573.00 *
640422	LE, DONALD	RENT SUBSIDY	947.00 *
640423	LE, HUY	RENT SUBSIDY	2,213.00 *
640424	LE, NGHIA V	RENT SUBSIDY	1,203.00 *
640425	LE, NGOC-MAI T	RENT SUBSIDY	784.00 *
640426	LE, TRACEY	RENT SUBSIDY	1,081.00 *
640427	LE, VIET Q.	RENT SUBSIDY	1,086.00 *
640428	LE, YENHI	RENT SUBSIDY	1,899.00 *
640429	LE,BAO GIA	RENT SUBSIDY	2,146.00 *
640430	LE,KIM Q	RENT SUBSIDY	1,140.00 *
640431	LE-MUNZER, HOABINH	RENT SUBSIDY	838.00 *
640432	LEMON GROVE LP	RENT SUBSIDY	1,247.00 *
640433	LINCOLN WOODS APARTMENTS	RENT SUBSIDY	3,148.00 *
640434	LOS CABALLEROS REAL ESTATE &FS	RENT SUBSIDY	1,219.00 *
640435	LY, THANH	RENT SUBSIDY	1,788.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640436	MACDONALD, WILLIAM T	RENT SUBSIDY	2,046.00 *
640437	MAGIC LAMP MOBILE HOME PARK	RENT SUBSIDY	1,091.00 *
640438	MAGNOLIA PLAZA	RENT SUBSIDY	1,090.00 *
640439	MAH, LARRY	RENT SUBSIDY	702.00 *
640440	MAI-NGUYEN, HANH T	RENT SUBSIDY	1,134.00 *
640441	MAMMEN, TERRY	RENT SUBSIDY	4,086.00 *
640442	MANNIL, SUPUNNEE	RENT SUBSIDY	992.00 *
640443	MARQUIS APTS, LLC	RENT SUBSIDY	1,683.00 *
640444	MCCOWN, A R	RENT SUBSIDY	1,587.00 *
640445	MIDWAY INTEREST LP	RENT SUBSIDY	2,004.00 *
640446	MIYAMOTO, JEAN	RENT SUBSIDY	376.00 *
640447	MONARK, LP	RENT SUBSIDY	1,283.00 *
640448	NAGHIBI, ALI	RENT SUBSIDY	2,757.00 *
640449	NEWPORT SR. VILLAGE Atten: OFFICE	RENT SUBSIDY	902.00 *
640450	NGO, ANDREW	RENT SUBSIDY	1,218.00 *
640451	NGO, KIM	RENT SUBSIDY	882.00 *
640452	NGO, MARY	RENT SUBSIDY	4,428.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640453	NGO, HOA KIM	RENT SUBSIDY	1,278.00 *
640454	NGUYEN, ANTHONY	RENT SUBSIDY	1,126.00 *
640455	NGUYEN, BACH THI	RENT SUBSIDY	1,070.00 *
640456	NGUYEN, BICHLE T	RENT SUBSIDY	3,992.00 *
640457	NGUYEN, BOYCE JR	RENT SUBSIDY	2,145.00 *
640458	NGUYEN, BRYAN	RENT SUBSIDY	2,032.00 *
640459	NGUYEN, CHARLIE	RENT SUBSIDY	1,360.00 *
640460	NGUYEN, CHRISTINE	RENT SUBSIDY	1,703.00 *
640461	NGUYEN, D DUY MD	RENT SUBSIDY	950.00 *
640462	NGUYEN, FRANK M	RENT SUBSIDY	1,642.00 *
640463	NGUYEN, HANG	RENT SUBSIDY	1,717.00 *
640464	NGUYEN, HOA THI	RENT SUBSIDY	1,222.00 *
640465	NGUYEN, HOC VAN	RENT SUBSIDY	1,585.00 *
640466	NGUYEN, HUNG	RENT SUBSIDY	968.00 *
640467	NGUYEN, JULIE MAI	RENT SUBSIDY	3,206.00 *
640468	NGUYEN, KHANH DANG	RENT SUBSIDY	802.00 *
640469	NGUYEN, LE THUY	RENT SUBSIDY	1,084.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640470	NGUYEN, LINDA MAI	RENT SUBSIDY	787.00 *
640471	NGUYEN, LOAN THANH	RENT SUBSIDY	1,034.00 *
640472	NGUYEN, MAI	RENT SUBSIDY	1,412.00 *
640473	NGUYEN, NICOLE U	RENT SUBSIDY	1,429.00 *
640474	NGUYEN, QUANG M	RENT SUBSIDY	1,077.00 *
640475	NGUYEN, STEVE T	RENT SUBSIDY	2,686.00 *
640476	NGUYEN, STEVEN	RENT SUBSIDY	948.00 *
640477	NGUYEN, TAM N	RENT SUBSIDY	1,624.00 *
640478	NGUYEN, TAN QUAN	RENT SUBSIDY	1,014.00 *
640479	NGUYEN, THANG XUAN	RENT SUBSIDY	914.00 *
640480	NGUYEN, THANH VAN	RENT SUBSIDY	2,817.00 *
640481	NGUYEN, THIEN THI	RENT SUBSIDY	1,326.00 *
640482	NGUYEN, THU-ANH	RENT SUBSIDY	1,537.00 *
640483	NGUYEN, THUYHUONG THI	RENT SUBSIDY	972.00 *
640484	NGUYEN, TRANG	RENT SUBSIDY	4,002.00 *
640485	NGUYEN, VINH K	RENT SUBSIDY	1,276.00 *
640486	NGUYEN, YVONNE QUYEN	RENT SUBSIDY	4,066.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640487	NGUYEN, CUONG CHI	RENT SUBSIDY	3,495.00 *
640488	NGUYEN, HUNG C.	RENT SUBSIDY	1,269.00 *
640489	NGUYEN, NICOLE UYEN	RENT SUBSIDY	911.00 *
640490	NGUYEN, PAULINE KIMPHUNG	RENT SUBSIDY	1,063.00 *
640491	NGUYEN, SHERRY LIEU	RENT SUBSIDY	1,690.00 *
640492	NGUYEN, TON SANH	RENT SUBSIDY	52.00 *
640493	NGUYEN, TRACY	RENT SUBSIDY	1,464.00 *
640494	NGUYEN-TU, THUY-TIEN	RENT SUBSIDY	2,096.00 *
640495	NORTHWOOD PLACE	RENT SUBSIDY	3,146.00 *
640496	PALM GARDEN APARTMENTS ATTN: OFFICE	RENT SUBSIDY	976.00 *
640497	PARCIES INVESTMENT	RENT SUBSIDY	2,703.00 *
640498	PARK, JIN	RENT SUBSIDY	1,298.00 *
640499	PARK, CHONG PIL	RENT SUBSIDY	1,093.00 *
640500	PATTUMMADITH, SUWAPANG	RENT SUBSIDY	1,141.00 *
640501	PAVILION PARK SENIOR 1 HOUSING PARTNERS, LP	RENT SUBSIDY	2,675.00 *
640502	PHAM, ANH THI	RENT SUBSIDY	1,048.00 *
640503	PHAM, DAVID DUNG	RENT SUBSIDY	1,225.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640504	PHAM, QUYEN	RENT SUBSIDY	799.00 *
640505	PHAM, TUNG	RENT SUBSIDY	1,196.00 *
640506	PHAM, VANTHI	RENT SUBSIDY	1,271.00 *
640507	PHAM, LOAN ANH THI	RENT SUBSIDY	1,210.00 *
640508	PHAN, VAN KHANH	RENT SUBSIDY	1,072.00 *
640509	PHAN, VIVIAN	RENT SUBSIDY	983.00 *
640510	PINEMEADOWS APARTMENTS ATTN: LEASING OFFICE	RENT SUBSIDY	2,267.00 *
640511	PLAZA WOODS, LLC	RENT SUBSIDY	2,318.00 *
640512	PORTOLA IRVINE, LP ANTON PORTOLA APARTMENTS	RENT SUBSIDY	1,291.00 *
640513	QUINN, GARY L	RENT SUBSIDY	769.00 *
640514	RANCHO ALISAL	RENT SUBSIDY	1,439.00 *
640515	RATANJEE, D M	RENT SUBSIDY	843.00 *
640516	RAYMOND AND LYNN RUAIS	RENT SUBSIDY	1,197.00 *
640517	ROCEL PROPERTIES MGMT INC	RENT SUBSIDY	1,110.00 *
640518	S.E. AMSTER	RENT SUBSIDY	1,059.00 *
640519	SALSOL PROPERTIES, LLC	RENT SUBSIDY	1,598.00 *
640520	SAN MARCO APTS	RENT SUBSIDY	950.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640521	SAN MARINO VILLAS APTS	RENT SUBSIDY	940.00 *
640522	SCHWERMANN, CELESTE	RENT SUBSIDY	1,412.00 *
640523	SEGUIN HOUSING AUTHORITY	PORTABILITY ADMIN	67.58 *
640523	SEGUIN HOUSING AUTHORITY	RENT SUBSIDY	425.00 *
640524	SILLO NORTHEAST, LLC	RENT SUBSIDY	1,866.00 *
640525	STANTON GROUP THREE, LLC	RENT SUBSIDY	3,704.00 *
640526	STERLING COURT SENIOR APTS	RENT SUBSIDY	1,112.00 *
640529	TA, CATHY	RENT SUBSIDY	1,466.00 *
640530	TERESINA APARTMENTS	RENT SUBSIDY	1,089.00 *
640531	THE KNOLLS	RENT SUBSIDY	123.00 *
640532	THE OVERLOOK	RENT SUBSIDY	1,000.00 *
640533	THOMSON EQUITIES	RENT SUBSIDY	947.00 *
640534	THOMSON EQUITIES	RENT SUBSIDY	2,814.00 *
640535	THSW PARTNERS, LLC dba DALE APTS	RENT SUBSIDY	5,897.00 *
640536	TON, VINH THAT	RENT SUBSIDY	1,701.00 *
640537	TRAN, EDWARD T	RENT SUBSIDY	924.00 *
640538	TRAN, HANG	RENT SUBSIDY	1,177.00 *
640539	TRAN, JOSEPH QUANG	RENT SUBSIDY	748.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640540	TRAN, LUCIA THUY	RENT SUBSIDY	865.00 *
640541	TRAN, THERESA T	RENT SUBSIDY	586.00 *
640542	TRAN, TIEN	RENT SUBSIDY	661.00 *
640543	TRAN, VAN	RENT SUBSIDY	777.00 *
640544	TRAN-NGUYEN, LIEN KIM	RENT SUBSIDY	871.00 *
640545	TRAVIS, BILLY V	RENT SUBSIDY	1,587.00 *
640546	TRG FULLERTON AFFORDABLE LP / VENTANA APARTMENTS	RENT SUBSIDY	617.00 *
640547	TRINH, THANH-MAI	RENT SUBSIDY	1,729.00 *
640548	TRINH, TRANG N	RENT SUBSIDY	892.00 *
640549	TRUONG, BAY LE	RENT SUBSIDY	1,136.00 *
640550	TRUONG, THUAN BICH	RENT SUBSIDY	1,000.00 *
640551	TRUONG, THUAN BICH	RENT SUBSIDY	3,027.00 *
640552	TRUONG, SON BICH	RENT SUBSIDY	1,589.00 *
640555	TURI, ANGELO S	RENT SUBSIDY	2,182.00 *
640556	VILLA CAPRI ESTATES	RENT SUBSIDY	711.00 *
640557	VINH, THUA	RENT SUBSIDY	234.00 *
640558	VINTAGE FLAGSHIP, LLC	RENT SUBSIDY	1,280.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640559	VISTA DEL SOL APTS	RENT SUBSIDY	1,070.00 *
640560	VO, KHANH MAI	RENT SUBSIDY	3,136.00 *
640561	VO, KIMCHI	RENT SUBSIDY	1,558.00 *
640562	VO, NAM T	RENT SUBSIDY	579.00 *
640563	VO, TIN TRUNG	RENT SUBSIDY	863.00 *
640564	VOLE, TINA NGA	RENT SUBSIDY	1,655.00 *
640565	VPM MANAGEMENT	RENT SUBSIDY	953.00 *
640566	VU, DEANNA PHUONG	RENT SUBSIDY	2,480.00 *
640567	VU, NAM H	RENT SUBSIDY	935.00 *
640568	VU, THAI	RENT SUBSIDY	1,407.00 *
640569	VU, DANNY	RENT SUBSIDY	657.00 *
640570	WALDEN APTS	RENT SUBSIDY	4,055.00 *
640571	WEST, NEIL E	RENT SUBSIDY	1,036.00 *
640572	WINDSOR-DAWSON LP	RENT SUBSIDY	4,949.00 *
640573	WINDWOOD KNOLL APARTMENTS	RENT SUBSIDY	2,509.00 *
640574	WOODBURY SQUARE	RENT SUBSIDY	1,291.00 *
640575	YIANG, VINCE	RENT SUBSIDY	1,140.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
640576	ZHAO, GEORGE	RENT SUBSIDY	971.00 *
W640315	13251 NEWLAND LLC	RENT SUBSIDY	5,582.00 *
W640315	12911 GALWAY ST, LLC	RENT SUBSIDY	2,147.00 *
W640316	19822 BROOKHURST, LLC	RENT SUBSIDY	2,307.00 *
W640316	19TH STREET AFFORDABLE LP	RENT SUBSIDY	901.00 *
W640318	7632 21ST ST LP WESTMINSTER SENIOR APTS	RENT SUBSIDY	4,266.00 *
W640318	ABCO CROWN VILLA,LTD	RENT SUBSIDY	1,606.00 *
W640318	ACACIAN APTS	RENT SUBSIDY	30,852.00 *
W640318	ACT EQUITIES, LLC	RENT SUBSIDY	2,167.00 *
W640318	ACACIA VILLAGE	RENT SUBSIDY	16,909.00 *
W640318	8080 BEVER PLACE-NEGBA LLC	RENT SUBSIDY	1,200.00 *
W640319	ADRIATIC APTS	RENT SUBSIDY	889.00 *
W640321	ALFRED P VU & JULIE NGA HO, LLC	RENT SUBSIDY	3,180.00 *
W640321	ALIBULLA, REHANA	RENT SUBSIDY	1,631.00 *
W640321	AEGEAN APARTMENTS	RENT SUBSIDY	4,968.00 *
W640322	ALLARD APARTMENT, LLC	RENT SUBSIDY	2,968.00 *
W640322	ALLEN, LYNN KATHLEEN	RENT SUBSIDY	754.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640323	ALTAMIRANO, CHIN MEI CHU	RENT SUBSIDY	1,212.00 *
W640323	ALTEZA, INC	RENT SUBSIDY	2,431.00 *
W640323	AMERICAN FAMILY HOUSING	RENT SUBSIDY	1,804.00 *
W640325	ANAHEIM SUNSET PLAZA APTS	RENT SUBSIDY	3,708.00 *
W640325	AOU, CHUNG NAN	RENT SUBSIDY	1,238.00 *
W640325	ARBOR VILLAS, LLC	RENT SUBSIDY	1,350.00 *
W640325	ARJON, TIMOTEO	RENT SUBSIDY	2,044.00 *
W640325	ATTIA, EIDA A	RENT SUBSIDY	1,533.00 *
W640325	AUDUONG, PAUL	RENT SUBSIDY	1,016.00 *
W640325	AUGUSTA GROUP INVESTMENTS INC	RENT SUBSIDY	915.00 *
W640325	ARROYO DEVELOPMENT PARTNERS, LL	RENT SUBSIDY	775.00 *
W640326	BACH & JASON NGUYEN INVESTMENT LLC	RENT SUBSIDY	1,143.00 *
W640326	BACH, PHAN	RENT SUBSIDY	909.00 *
W640326	AYNEM INVESTMENTS, LP	RENT SUBSIDY	14,802.00 *
W640327	BANH, HA	RENT SUBSIDY	1,212.00 *
W640327	BARRY SAYWITZ PROP TWO, LP	RENT SUBSIDY	5,723.00 *
W640327	BEHRENS PROPERTIES, LLC	RENT SUBSIDY	903.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640327	BELAGE PRESERVATION, LP	RENT SUBSIDY	688.00 *
W640327	BERTRAN, JAIME OR MAGALI	RENT SUBSIDY	2,073.00 *
W640327	BHALANI, ANIL	RENT SUBSIDY	956.00 *
W640327	BHATT, N C	RENT SUBSIDY	2,601.00 *
W640327	BOTHWICK, KELLY	RENT SUBSIDY	1,016.00 *
W640327	BOUTROS, ADEL A	RENT SUBSIDY	1,684.00 *
W640327	BOWEN PROPERTY, LLC	RENT SUBSIDY	1,144.00 *
W640327	BOZARJIAN, MAI	RENT SUBSIDY	24,744.00 *
W640327	BRACHA, SHAY	RENT SUBSIDY	1,526.00 *
W640327	BRE PARAGON MF INVESTMENT LP	RENT SUBSIDY	2,418.00 *
W640327	BRIAR CREST / ROSE CREST	RENT SUBSIDY	2,284.00 *
W640327	BROWN, SHARON OR NORMAN	RENT SUBSIDY	2,569.00 *
W640327	BUENA PARK SUNRISE APTS LP	RENT SUBSIDY	993.00 *
W640327	BEACH CREEK APARTMENTS	RENT SUBSIDY	1,167.00 *
W640327	BERTINA PANG LOH CHANG	RENT SUBSIDY	884.00 *
W640327	BAKER RANCH AFFORDABLE LP	RENT SUBSIDY	2,758.00 *
W640329	BUI, BACH	RENT SUBSIDY	944.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640329	BUI, DUNG	RENT SUBSIDY	1,799.00 *
W640329	BUI, HOA T.	RENT SUBSIDY	929.00 *
W640330	BUI, KIMBERLY	RENT SUBSIDY	2,217.00 *
W640333	BUI, MONICA	RENT SUBSIDY	2,765.00 *
W640333	BUI, NGA HUYNH	RENT SUBSIDY	899.00 *
W640336	BUI, TAM THI	RENT SUBSIDY	1,330.00 *
W640336	BUI, THUAN	RENT SUBSIDY	1,576.00 *
W640337	BUI, TRIET THO-MINH	RENT SUBSIDY	1,639.00 *
W640337	C.S.T. CAPITAL LLC	RENT SUBSIDY	1,452.00 *
W640337	CAI-NGUYEN, THU T	RENT SUBSIDY	1,293.00 *
W640337	CALA GRASIO APTS	RENT SUBSIDY	2,957.00 *
W640337	BURLEY, DAVID M	RENT SUBSIDY	1,147.00 *
W640338	CAMBRIDGE HEIGHTS, LP	RENT SUBSIDY	940.00 *
W640338	CANNON, WARREN	RENT SUBSIDY	1,087.00 *
W640338	CAO, MYTRANG	RENT SUBSIDY	634.00 *
W640338	CAO, PHUOC GIA	RENT SUBSIDY	894.00 *
W640338	CAO, XUAN	RENT SUBSIDY	977.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640338	CASCADE TERRACE APARTMENTS	RENT SUBSIDY	1,977.00 *
W640338	CDN INVESTMENTS, INC	RENT SUBSIDY	2,097.00 *
W640338	CASA MADRID	RENT SUBSIDY	5,064.00 *
W640339	CHAN, KOU LEAN	RENT SUBSIDY	1,032.00 *
W640339	CHAN, TIFFANNIE L.	RENT SUBSIDY	553.00 *
W640339	CHAN, MIN OR TRAN, CHIEN	RENT SUBSIDY	2,156.00 *
W640339	CHANG, EVELYN	RENT SUBSIDY	2,263.00 *
W640339	CHANG, SHERRI	RENT SUBSIDY	2,251.00 *
W640339	CHANG, WARREN	RENT SUBSIDY	942.00 *
W640340	CHATHAM VILLAGE APTS	RENT SUBSIDY	4,333.00 *
W640340	CHAU, ALICE	RENT SUBSIDY	2,087.00 *
W640340	CHELSEA COURT APTS	RENT SUBSIDY	1,160.00 *
W640340	CHEN, DENNIS KYINSAN	RENT SUBSIDY	2,623.00 *
W640340	CHEN, SHIAO-YUNG	RENT SUBSIDY	4,786.00 *
W640340	CHEN, T C	RENT SUBSIDY	29,735.00 *
W640340	CHARLESTON GARDENS, LLC	RENT SUBSIDY	1,103.00 *
W640341	CHERRY WEST PROPERTIES	RENT SUBSIDY	1,127.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640341	CHEUNG, STEPHEN	RENT SUBSIDY	2,604.00 *
W640341	CHEY, PAUL M	RENT SUBSIDY	1,918.00 *
W640341	CHIANG, LI-YONG	RENT SUBSIDY	1,340.00 *
W640342	CHONG, DON J G	RENT SUBSIDY	4,734.00 *
W640343	CHUN, JOHN	RENT SUBSIDY	892.00 *
W640343	CINCO TRAN, LLC	RENT SUBSIDY	1,297.00 *
W640343	CITRUS GROVE, LP	RENT SUBSIDY	421.00 *
W640343	CLIFTON, KATHLEEN P	RENT SUBSIDY	902.00 *
W640343	COAST TO COAST INVESTMENT GROUP, LLC	RENT SUBSIDY	1,140.00 *
W640343	COLACION, KATHY D	RENT SUBSIDY	740.00 *
W640343	COMMUNITY GARDENS PARTNERS LP	RENT SUBSIDY	1,930.00 *
W640343	CONCEPCION, NORMA S	RENT SUBSIDY	1,135.00 *
W640343	CO, PONCH	RENT SUBSIDY	897.00 *
W640343	CHUNG, KYU B	RENT SUBSIDY	4,005.00 *
W640345	CONNOR PINES LLC	RENT SUBSIDY	11,445.00 *
W640345	CONTINENTAL GARDENS APTS	RENT SUBSIDY	13,131.00 *
W640345	COURTYARD VILLAS	RENT SUBSIDY	9,303.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640345	CORNER CAPITAL INVESTMENTS	RENT SUBSIDY	703.00 *
W640348	CRUZAT, KERILYN	RENT SUBSIDY	892.00 *
W640348	CUNG, KHANH	RENT SUBSIDY	2,674.00 *
W640348	CUNG, KHIEM	RENT SUBSIDY	2,318.00 *
W640348	DAC, NGHIA HO OR PHAN VE TU	RENT SUBSIDY	2,737.00 *
W640348	CURTIS FAMILY TRUST	RENT SUBSIDY	2,220.00 *
W640349	DAM, BINH DINH	RENT SUBSIDY	1,188.00 *
W640349	DANG, ANNIE	RENT SUBSIDY	459.00 *
W640349	DANG, CHINH VAN	RENT SUBSIDY	1,035.00 *
W640349	DANG, MIKE M	RENT SUBSIDY	1,575.00 *
W640349	DANG, DAVID	RENT SUBSIDY	937.00 *
W640349	DANG, THO NGOC	RENT SUBSIDY	50.00 *
W640350	DANG, THANH-THUY THI	RENT SUBSIDY	900.00 *
W640350	DAO, JOSEPH N	RENT SUBSIDY	1,046.00 *
W640350	DAO, MINH	RENT SUBSIDY	864.00 *
W640350	DAO, NELSON NGUYEN	RENT SUBSIDY	2,920.00 *
W640350	DAO, TRU	RENT SUBSIDY	3,549.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640350	DAO, TU VAN	RENT SUBSIDY	2,005.00 *
W640350	DAO,NGOC-THUY	RENT SUBSIDY	1,077.00 *
W640350	DAO-PHAM, LOC THI OR PHAM, LUONG-NGUYEN	RENT SUBSIDY	2,029.00 *
W640350	DAVIS, SON OR MICHELLE	RENT SUBSIDY	805.00 *
W640350	DE ANZA PLAZA APTS II	RENT SUBSIDY	2,505.00 *
W640350	DE MIRANDA MANAGEMENT	RENT SUBSIDY	3,162.00 *
W640350	DEWYER, CLARA J.	RENT SUBSIDY	1,069.00 *
W640350	DIAZ, FRANK T	RENT SUBSIDY	1,099.00 *
W640350	DDA LLC	RENT SUBSIDY	1,218.00 *
W640350	DEERING II FAMILY L.P.	RENT SUBSIDY	983.00 *
W640351	DINH, CHINH	RENT SUBSIDY	1,570.00 *
W640352	DINH, HANH	RENT SUBSIDY	1,593.00 *
W640352	DINH, JOSEPH	RENT SUBSIDY	996.00 *
W640352	DINH, KATHLEEN	RENT SUBSIDY	955.00 *
W640352	DINH, KATHY	RENT SUBSIDY	1,261.00 *
W640352	DINH, KIM	RENT SUBSIDY	956.00 *
W640352	DINH, LAN THAI	RENT SUBSIDY	2,907.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640352	DINH, LONG T	RENT SUBSIDY	897.00 *
W640352	DINH, NHU Y	RENT SUBSIDY	1,018.00 *
W640352	DINH, THU V.	RENT SUBSIDY	1,194.00 *
W640352	DINH, TUAN	RENT SUBSIDY	2,148.00 *
W640352	DINH, Y NHA	RENT SUBSIDY	965.00 *
W640352	DINH, THANH	RENT SUBSIDY	1,619.00 *
W640352	DNK PROPERTY LLC	RENT SUBSIDY	13,619.00 *
W640353	DO, BRANDON BINH	RENT SUBSIDY	1,900.00 *
W640354	DO, JONATHAN	RENT SUBSIDY	1,216.00 *
W640354	DO, KENNETH	RENT SUBSIDY	1,801.00 *
W640355	DO, MINH C.	RENT SUBSIDY	2,465.00 *
W640356	DO, MY-PHUONG	RENT SUBSIDY	1,133.00 *
W640356	DO, NANCY	RENT SUBSIDY	891.00 *
W640357	DO, THUY KIM	RENT SUBSIDY	1,478.00 *
W640357	DO, THUY THI	RENT SUBSIDY	770.00 *
W640358	DO, TINA	RENT SUBSIDY	4,494.00 *
W640358	DO, XUYEN THI	RENT SUBSIDY	948.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640359	DOAN, HARRY	RENT SUBSIDY	620.00 *
W640360	DOAN, HOAI T	RENT SUBSIDY	1,197.00 *
W640360	DOAN, HUY	RENT SUBSIDY	2,815.00 *
W640360	DOAN, KYLAM	RENT SUBSIDY	1,408.00 *
W640360	DOAN, NHA & JOANNE TRANG VU	RENT SUBSIDY	1,421.00 *
W640360	DOAN, PHUONGNGA THI	RENT SUBSIDY	1,609.00 *
W640360	DOAN, THANH QUE	RENT SUBSIDY	1,527.00 *
W640360	DOHANH, WILLIAM D	RENT SUBSIDY	1,687.00 *
W640360	DOIDGE, JERRY	RENT SUBSIDY	808.00 *
W640360	DOLCE VITA INVESTMENTS, LLC	RENT SUBSIDY	5,313.00 *
W640360	DONALDSON, THOMAS M	RENT SUBSIDY	786.00 *
W640360	DONG, MINH TRANG	RENT SUBSIDY	765.00 *
W640361	DORADO SENIOR APARTMENTS, LP	RENT SUBSIDY	901.00 *
W640361	DOWD III, WILLIAM A.	RENT SUBSIDY	868.00 *
W640361	DSN INVESTMENT GROUP, LLC	RENT SUBSIDY	5,496.00 *
W640361	DTP INVESTMENTS, LLC	RENT SUBSIDY	2,238.00 *
W640361	DU, CHRISTINE H.	RENT SUBSIDY	1,251.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640361	DUC NGUYEN AND PAULINE NGUYEN, LLC	RENT SUBSIDY	1,177.00 *
W640361	DUNNETT, DAVID F	RENT SUBSIDY	2,210.00 *
W640361	DUONG, HONG MANH	RENT SUBSIDY	888.00 *
W640361	DUNN, DAVID C	RENT SUBSIDY	2,348.00 *
W640361	DUCATO GARDENS, LLC	RENT SUBSIDY	748.00 *
W640362	DUONG, LOM	RENT SUBSIDY	1,428.00 *
W640362	DUONG, MINH B	RENT SUBSIDY	3,701.00 *
W640362	DUONG, THAI VAN	RENT SUBSIDY	1,102.00 *
W640363	DUONG, HUNG Q	RENT SUBSIDY	1,133.00 *
W640363	DYO, GLADYS	RENT SUBSIDY	480.00 *
W640364	EHLE, GERALD	RENT SUBSIDY	2,729.00 *
W640364	EDLUND, DANIEL T	RENT SUBSIDY	1,338.00 *
W640366	EL RAY PARTNERS, LLC	RENT SUBSIDY	6,704.00 *
W640367	EMERALD COURT APARTMENTS ATTEN: LEASING OFFICE	RENT SUBSIDY	1,106.00 *
W640367	EMERALD FIELD, LLC	RENT SUBSIDY	6,876.00 *
W640367	ELIAS CAPITAL GROUP, LLC	RENT SUBSIDY	1,897.00 *
W640368	ENGEL, TERRY C	RENT SUBSIDY	136.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640370	EVERGREEN ESTATE EXPANSION LLC	RENT SUBSIDY	6,368.00 *
W640370	FAIRFAX COUNTY DEPT OF HOUSING	PORTABILITY ADMIN	68.80 *
W640370	FAIRFAX COUNTY DEPT OF HOUSING	RENT SUBSIDY	708.00 *
W640370	FAIRVIEW MGMT COMPANY	RENT SUBSIDY	3,453.00 *
W640371	FAN, BOONE	RENT SUBSIDY	1,947.00 *
W640371	FBC APARTMENTS	RENT SUBSIDY	780.00 *
W640372	FINCH, WENDY	RENT SUBSIDY	968.00 *
W640372	FIVE POINTS SENIOR APTS	RENT SUBSIDY	1,894.00 *
W640372	FOREVERGREEN EXPANSION, LLC	RENT SUBSIDY	2,587.00 *
W640372	FOUNTAIN GLEN AT ANAHEIM HILLS	RENT SUBSIDY	965.00 *
W640373	FRECHTMAN, WILLIAM	RENT SUBSIDY	1,112.00 *
W640373	FREEDOMPATH PROPERTIES, LLC	RENT SUBSIDY	1,419.00 *
W640373	FU CRAIG FA, LLC	RENT SUBSIDY	3,465.00 *
W640373	FREMONT 2225	RENT SUBSIDY	1,353.00 *
W640374	GANZ, KARL	RENT SUBSIDY	872.00 *
W640375	GARCIA, NORMA OR WILLIAM	RENT SUBSIDY	1,002.00 *
W640375	GARDEN BAY APARTMENTS, LLC	RENT SUBSIDY	877.00 *
W640376	GARDEN GROVE HOUSING ASSOCIATE	RENT SUBSIDY	4,675.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640376	GARDEN TERRACE ESTATES	RENT SUBSIDY	884.00 *
W640376	GARZA, CAROL	RENT SUBSIDY	770.00 *
W640377	GERMAIN, AARON & CASSANDRA	RENT SUBSIDY	1,359.00 *
W640378	GIACALONE, BRIGITTE	RENT SUBSIDY	868.00 *
W640378	GIGI APARTMENTS	RENT SUBSIDY	1,788.00 *
W640378	GLENHAVEN MOBILODGE	RENT SUBSIDY	307.00 *
W640378	GOMEZ, HENRY S.	RENT SUBSIDY	1,455.00 *
W640378	GR8 FAMILY HOMES, LLC	RENT SUBSIDY	1,231.00 *
W640378	GREEN LANTERN VILLAGE CALIFORNIA MHPMGT CO	RENT SUBSIDY	383.00 *
W640379	GREENFIELDSDIDE, LLC	RENT SUBSIDY	2,175.00 *
W640379	GREEN, WILLIAM	RENT SUBSIDY	1,169.00 *
W640380	GROVE PARK L.P.	RENT SUBSIDY	55,200.00 *
W640381	GULMESOFF, JIM	RENT SUBSIDY	4,773.00 *
W640381	GUSTIN, TIMOTHY M	RENT SUBSIDY	699.00 *
W640381	GUYUMJYAN, GINA	RENT SUBSIDY	3,861.00 *
W640381	HA OF DEKALB COUNTY	PORTABILITY ADMIN	56.96 *
W640381	HA OF DEKALB COUNTY	RENT SUBSIDY	587.00 *
W640382	HA, DAC T	RENT SUBSIDY	1,146.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640382	HA, KHIEM Q	RENT SUBSIDY	955.00 *
W640384	HA, TRIET M.	RENT SUBSIDY	1,061.00 *
W640384	HAH, CHENG	RENT SUBSIDY	944.00 *
W640384	HALL & ASSOCIATES, INC.	RENT SUBSIDY	4,047.00 *
W640386	HANSON, CLIFTON & BRENDA	RENT SUBSIDY	2,040.00 *
W640388	HAU, STEVEN	RENT SUBSIDY	1,772.00 *
W640388	HARBOR GROVE LUXURY APARTMENTS	RENT SUBSIDY	22,977.00 *
W640389	HAWAII COUNTY HOUSING AGENCY	PORTABILITY ADMIN	67.78 *
W640389	HAWAII COUNTY HOUSING AGENCY	RENT SUBSIDY	741.00 *
W640389	HERITAGE PARK	RENT SUBSIDY	3,121.00 *
W640390	HERITAGE VILLAGE ANAHEIM	RENT SUBSIDY	1,047.00 *
W640390	HILLIARD, SHERRY OR RICHARD	RENT SUBSIDY	1,237.00 *
W640391	HMZ RESIDENTIAL PARK LP	RENT SUBSIDY	1,532.00 *
W640391	HO, HENRY HOI	RENT SUBSIDY	1,830.00 *
W640391	HO, HETTY	RENT SUBSIDY	1,311.00 *
W640391	HO, HIEP or DAO, NGOC THUY	RENT SUBSIDY	4,281.00 *
W640391	HO, KEVIN TRIEU	RENT SUBSIDY	2,362.00 *
W640391	HO, LIEN KIM	RENT SUBSIDY	1,051.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640391	HO, PAULINE	RENT SUBSIDY	2,151.00 *
W640392	HO, TIM	RENT SUBSIDY	1,067.00 *
W640392	HO, CHARLES	RENT SUBSIDY	867.00 *
W640393	HOANG, LAN T	RENT SUBSIDY	1,130.00 *
W640394	HOANG, LONG	RENT SUBSIDY	1,014.00 *
W640394	HOANG, TRACY	RENT SUBSIDY	1,015.00 *
W640394	HOANG, TUAN	RENT SUBSIDY	1,113.00 *
W640394	HOANG, LANG	RENT SUBSIDY	948.00 *
W640394	HOANG, NHAN TIEN	RENT SUBSIDY	904.00 *
W640395	HOLTZMAN, ROSEMARY LC	RENT SUBSIDY	885.00 *
W640395	HOPPE, SALLY	RENT SUBSIDY	1,111.00 *
W640395	HOUSING AUTHORITY OF PORTLAND	PORTABILITY ADMIN	57.37 *
W640395	HOUSING AUTHORITY OF PORTLAND	RENT SUBSIDY	713.00 *
W640395	HOWELL, ARLENE J	RENT SUBSIDY	1,123.00 *
W640395	HSU, CHANG-HUA LIU	RENT SUBSIDY	764.00 *
W640395	HUA, LUC	RENT SUBSIDY	1,223.00 *
W640395	HUERTA, DANIEL	RENT SUBSIDY	1,190.00 *
W640395	HUNTINGTON WESTMINSTER APT, LLC	RENT SUBSIDY	1,225.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640395	HUSS, DON	RENT SUBSIDY	864.00 *
W640395	HUYNH, CHEN THI	RENT SUBSIDY	3,165.00 *
W640395	HUYNH, FELIX	RENT SUBSIDY	733.00 *
W640395	HUYNH, JENNIFER	RENT SUBSIDY	1,401.00 *
W640395	HUYNH, KELVIN	RENT SUBSIDY	1,115.00 *
W640395	HUYNH, LOAN	RENT SUBSIDY	1,394.00 *
W640395	HUYNH, MINH HUOY	RENT SUBSIDY	1,394.00 *
W640395	HUYNH, MINH T MAI	RENT SUBSIDY	869.00 *
W640396	HUYNH, PHILIP	RENT SUBSIDY	415.00 *
W640396	HUYNH, RICHARD T	RENT SUBSIDY	1,951.00 *
W640396	HUYNH, SALLY B	RENT SUBSIDY	1,076.00 *
W640396	HUYNH, SCOTT THANH OR LE, KIM DONG T	RENT SUBSIDY	875.00 *
W640396	HUYNH, LONG BAO	RENT SUBSIDY	1,037.00 *
W640398	HWANG, C.M.	RENT SUBSIDY	1,022.00 *
W640398	IMPERIAL NORTH HOLDINGS, LLC	RENT SUBSIDY	677.00 *
W640398	IMPERIAL NORTHWEST HOLDINGS	RENT SUBSIDY	4,664.00 *
W640398	INTERNATIONAL BUSINESS INVESTMENT GROUP, LLC	RENT SUBSIDY	4,793.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640398	J & E ESTATES, LLC	RENT SUBSIDY	1,522.00 *
W640398	J.D. PROPERTY MANAGEMENT, INC	RENT SUBSIDY	1,758.00 *
W640398	JANESKI, JERRY	RENT SUBSIDY	1,350.00 *
W640398	JANGIE, LLC	RENT SUBSIDY	1,113.00 *
W640399	JG & B CORPORATION	RENT SUBSIDY	7,504.00 *
W640399	JGKALLINS INVESTMENTS LP	RENT SUBSIDY	1,149.00 *
W640399	JENSEN SOMMERVILLE CONZELMAN CO. LP	RENT SUBSIDY	1,444.00 *
W640400	JOHNSON, NATHAN D.	RENT SUBSIDY	1,751.00 *
W640403	JTK & ASSOCIATES	RENT SUBSIDY	2,631.00 *
W640403	JTM BAYOU, LLC	RENT SUBSIDY	1,967.00 *
W640403	JU, LIN J	RENT SUBSIDY	3,358.00 *
W640403	JU, FRED	RENT SUBSIDY	950.00 *
W640403	KAID MALINDA INVESTMENT INC	RENT SUBSIDY	983.00 *
W640403	KAMAT, JAIDEEP	RENT SUBSIDY	3,512.00 *
W640403	KASHI TRUST	RENT SUBSIDY	10,993.00 *
W640403	KATELLA MOBILE HOME ESTATES	RENT SUBSIDY	828.00 *
W640403	KAY VEE, LLC	RENT SUBSIDY	1,019.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640403	KCM INVESTMENTS LLC	RENT SUBSIDY	1,857.00 *
W640403	JUNG SUN NOH	RENT SUBSIDY	10,119.00 *
W640407	KEH, LU-YONG	RENT SUBSIDY	3,829.00 *
W640408	KELLEY, ROBERT	RENT SUBSIDY	3,539.00 *
W640408	KENSINGTON GARDENS	RENT SUBSIDY	1,648.00 *
W640408	KHA, DAN VAN	RENT SUBSIDY	2,174.00 *
W640408	KHA, LINDA OR LY, TIEN	RENT SUBSIDY	1,096.00 *
W640408	KHA, CAM MY	RENT SUBSIDY	1,386.00 *
W640408	KHEANG, SETH S	RENT SUBSIDY	1,065.00 *
W640408	KHONG, LILY	RENT SUBSIDY	1,281.00 *
W640408	KHUU, HENRY THAI	RENT SUBSIDY	1,077.00 *
W640408	KIM, MELVIN LEE	RENT SUBSIDY	944.00 *
W640408	KIM, SON H	RENT SUBSIDY	3,270.00 *
W640408	KING COUNTY HOUSING AUTHORITY	PORTABILITY ADMIN	131.79 *
W640408	KING COUNTY HOUSING AUTHORITY	RENT SUBSIDY	2,323.00 *
W640408	KING, BERNARD	RENT SUBSIDY	1,222.00 *
W640408	KIM, DAVID S	RENT SUBSIDY	796.00 *
W640408	KING INVESTMENT GROUP, INC	RENT SUBSIDY	5,155.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640408	KIM, JONG WAN	RENT SUBSIDY	1,571.00 *
W640408	KIM, HARRY H	RENT SUBSIDY	1,140.00 *
W640409	KITSELMAN, KENT M	RENT SUBSIDY	1,136.00 *
W640410	KLUNK, MARILYN c/o SHEPHERD PROPERTIES	RENT SUBSIDY	3,503.00 *
W640410	KNK PROPERTIES	RENT SUBSIDY	6,645.00 *
W640412	KPKK, LLC	RENT SUBSIDY	889.00 *
W640413	KUO, EDWARD	RENT SUBSIDY	2,498.00 *
W640413	KURZ, JOAQUIN	RENT SUBSIDY	4,683.00 *
W640414	LAGUNA HILLS TRAVELODGE LLC ATTN: OFFICE	RENT SUBSIDY	27,460.00 *
W640414	LAGUNA STREET APARTMENTS, LLC	RENT SUBSIDY	892.00 *
W640414	LAI, KINH	RENT SUBSIDY	1,079.00 *
W640414	LAKE SIDE ASSOCIATION	RENT SUBSIDY	2,934.00 *
W640414	LALLY, JULIE	RENT SUBSIDY	1,409.00 *
W640414	LALLY, STEVE	RENT SUBSIDY	1,200.00 *
W640414	LAM, ANDRE	RENT SUBSIDY	2,042.00 *
W640415	LAM, CHAU	RENT SUBSIDY	4,315.00 *
W640415	LAM, HAI	RENT SUBSIDY	4,070.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640415	LAM, HOLLY AND STEVE	RENT SUBSIDY	1,855.00 *
W640416	LAM, QUOC D	RENT SUBSIDY	2,265.00 *
W640416	LAM, THONG KIM	RENT SUBSIDY	1,911.00 *
W640416	LAM, TONY	RENT SUBSIDY	505.00 *
W640416	LAM, DUY M	RENT SUBSIDY	1,249.00 *
W640416	LAM, MAI	RENT SUBSIDY	953.00 *
W640416	LAMPLIGHTER VILLAGE APTS	RENT SUBSIDY	11,452.00 *
W640416	LAMY OANH LLC	RENT SUBSIDY	7,130.00 *
W640416	LANDA, SALVADOR	RENT SUBSIDY	889.00 *
W640416	LARDERUCCIO, SAL	RENT SUBSIDY	1,221.00 *
W640417	LAU, STEPHEN	RENT SUBSIDY	3,088.00 *
W640418	LE MORNINGSIDE, LLC	RENT SUBSIDY	3,209.00 *
W640419	LE, CHRIS	RENT SUBSIDY	1,657.00 *
W640422	LE, HIEN QUANG	RENT SUBSIDY	1,468.00 *
W640422	LE, HIEP THI	RENT SUBSIDY	1,785.00 *
W640422	LE, HONG PHUC THI	RENT SUBSIDY	1,083.00 *
W640422	LE, HUNG	RENT SUBSIDY	641.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640423	LE, JIMMY T	RENT SUBSIDY	1,907.00 *
W640423	LE, JOHN	RENT SUBSIDY	1,863.00 *
W640423	LE, JOHN TOAN	RENT SUBSIDY	2,480.00 *
W640423	LE, KIM CHI THI	RENT SUBSIDY	1,824.00 *
W640423	LE, LAN V.	RENT SUBSIDY	1,921.00 *
W640423	LE, LANH C	RENT SUBSIDY	1,479.00 *
W640423	LE, LANH VAN	RENT SUBSIDY	1,302.00 *
W640423	LE, LY PHUONG	RENT SUBSIDY	1,137.00 *
W640423	LE, LYAN	RENT SUBSIDY	1,166.00 *
W640423	LE, MICHAEL	RENT SUBSIDY	1,737.00 *
W640423	LE, NGA	RENT SUBSIDY	1,777.00 *
W640423	LE, NGAT THI	RENT SUBSIDY	2,573.00 *
W640423	LE, MY	RENT SUBSIDY	836.00 *
W640425	LE, NGUYEN NHU	RENT SUBSIDY	1,019.00 *
W640425	LE, PHU THI NOC	RENT SUBSIDY	775.00 *
W640425	LE, RICHARD TUANANH	RENT SUBSIDY	894.00 *
W640425	LE, STEPHANIE THU	RENT SUBSIDY	3,363.00 *

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640425	LE, THANH TIEN	RENT SUBSIDY	2,404.00 *
W640425	LE, TINA M	RENT SUBSIDY	1,043.00 *
W640425	LE, PHUONG L.	RENT SUBSIDY	502.00 *
W640426	LE, TRUNG ANH	RENT SUBSIDY	787.00 *
W640426	LE, VICTOR	RENT SUBSIDY	1,485.00 *
W640428	LE,ANH NGOC	RENT SUBSIDY	552.00 *
W640430	LE,XAN NGOC	RENT SUBSIDY	1,028.00 *
W640431	LEDUC, MONIQUE	RENT SUBSIDY	1,602.00 *
W640431	LEE, DAVID OR TRINH	RENT SUBSIDY	1,398.00 *
W640432	LEUNG, ROGER	RENT SUBSIDY	2,659.00 *
W640432	LI, SOL M	RENT SUBSIDY	1,572.00 *
W640432	LIAO, ALICE	RENT SUBSIDY	1,994.00 *
W640432	LIM, HONG S	RENT SUBSIDY	2,060.00 *
W640432	LIN, DAVID	RENT SUBSIDY	2,078.00 *
W640432	LIN, EEL-YU	RENT SUBSIDY	1,102.00 *
W640432	LINCOLN VILLAS APT HOMES, LLC	RENT SUBSIDY	5,335.00 *
W640433	LITTON, KATHERINE	RENT SUBSIDY	1,358.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640433	LLE LLC	RENT SUBSIDY	1,414.00 *
W640433	LONG, TU-ANH & DUONG, TROY	RENT SUBSIDY	1,154.00 *
W640434	LOTUS PROPERTIES	RENT SUBSIDY	4,311.00 *
W640434	LOUIE, CINDY W	RENT SUBSIDY	2,020.00 *
W640434	LU, QUYNH THUY	RENT SUBSIDY	1,110.00 *
W640434	LUONG, KHANH	RENT SUBSIDY	1,070.00 *
W640434	LUONG, LONG DUC	RENT SUBSIDY	885.00 *
W640434	LUONG, TRA THI-PHUONG	RENT SUBSIDY	1,599.00 *
W640434	LUU, ALLEN	RENT SUBSIDY	1,320.00 *
W640434	LUU, TUAN V	RENT SUBSIDY	1,293.00 *
W640434	LUU, XUYEN	RENT SUBSIDY	1,290.00 *
W640434	LUVIE CORPORATION	RENT SUBSIDY	873.00 *
W640434	LY, DUC T	RENT SUBSIDY	1,332.00 *
W640434	LY, MING	RENT SUBSIDY	1,554.00 *
W640434	LY, TAN Q	RENT SUBSIDY	1,013.00 *
W640434	LOTUS GARDENS	RENT SUBSIDY	12,066.00 *
W640435	LY, TRANH	RENT SUBSIDY	808.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640435	LY, TUYEN X	RENT SUBSIDY	2,152.00 *
W640435	LY, XUAN GRACE LINH	RENT SUBSIDY	1,627.00 *
W640436	MADJE-STAMPER PATRICIA A MADJE	RENT SUBSIDY	3,913.00 *
W640439	MAI, ANN N	RENT SUBSIDY	2,291.00 *
W640439	MAI, FRANK	RENT SUBSIDY	2,047.00 *
W640439	MAI, JENNIE THUY	RENT SUBSIDY	1,621.00 *
W640439	MAI, LINDA	RENT SUBSIDY	2,021.00 *
W640439	MAI, CHUCK	RENT SUBSIDY	2,305.00 *
W640439	MAI-NGO, JAIMIE	RENT SUBSIDY	1,047.00 *
W640441	MANDAS, KONSTANTINOS P.	RENT SUBSIDY	1,129.00 *
W640442	MARIPOSA PROPERTIES	RENT SUBSIDY	953.00 *
W640443	MAYER, LEOPOLD	RENT SUBSIDY	2,239.00 *
W640443	MAYFIELD II, ARTHUR	RENT SUBSIDY	1,847.00 *
W640443	MAZENKO, FRANCINE	RENT SUBSIDY	1,027.00 *
W640443	MC GOFF, JOHN	RENT SUBSIDY	1,079.00 *
W640443	MAX & MIN PROPERTIES, LLC	RENT SUBSIDY	2,999.00 *
W640444	MCGRATH, GRACE OR GERALD	RENT SUBSIDY	2,199.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640444	MEAGHER, ELMER	RENT SUBSIDY	1,756.00 *
W640444	MEAK, MANH	RENT SUBSIDY	1,349.00 *
W640444	MEHTA, JAGDISH P	RENT SUBSIDY	2,633.00 *
W640444	MERCY HOUSING CA XXVIII, LP	RENT SUBSIDY	426.00 *
W640444	MEYSENBERG, MAURICE F.	RENT SUBSIDY	960.00 *
W640444	MIDWAY CAPITAL PARTNERS	RENT SUBSIDY	1,211.00 *
W640445	MIKE & KATHY LEE LP	RENT SUBSIDY	1,655.00 *
W640445	MILLER, ROSEMARY	RENT SUBSIDY	1,145.00 *
W640446	MONARCH POINTE	RENT SUBSIDY	1,293.00 *
W640447	MONTEBELLO, ANTHONY	RENT SUBSIDY	973.00 *
W640447	MONTECITO VISTA APT HOMES	RENT SUBSIDY	1,242.00 *
W640447	N & V DEVELOPMENT, LLC	RENT SUBSIDY	4,985.00 *
W640447	N&V DEVELOPMENT, LLC	RENT SUBSIDY	1,052.00 *
W640447	N&V DEVELOPMENT, LLC	RENT SUBSIDY	7,963.00 *
W640447	NACHAM, ABRAM B	RENT SUBSIDY	870.00 *
W640447	MYCORN, BARRY N.	RENT SUBSIDY	1,076.00 *
W640448	NAMSINH, PATRICK	RENT SUBSIDY	1,505.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640448	NEW HORIZONVIEW, LLC	RENT SUBSIDY	2,781.00 *
W640448	NEW KENYON APARTMENTS LLC	RENT SUBSIDY	701.00 *
W640448	NEW TCNY LLC RETIREMENT PLAN & TRUST	RENT SUBSIDY	1,069.00 *
W640448	NEWPORT ESTATE EXPANSION LLC	RENT SUBSIDY	1,034.00 *
W640449	NGHIEM, DALE XUAN	RENT SUBSIDY	901.00 *
W640449	NGHIEM, DANIEL	RENT SUBSIDY	13,316.00 *
W640450	NGO, DANNY	RENT SUBSIDY	1,074.00 *
W640450	NGO, HONG DIEP LE	RENT SUBSIDY	935.00 *
W640451	NGO, LOC T	RENT SUBSIDY	913.00 *
W640452	NGO, MIMI T	RENT SUBSIDY	1,212.00 *
W640452	NGO, TAMMY	RENT SUBSIDY	1,216.00 *
W640453	NGUYEN, ANDREW Q	RENT SUBSIDY	1,589.00 *
W640453	NGUYEN, ANH	RENT SUBSIDY	461.00 *
W640453	NGUYEN, ANH-DAO	RENT SUBSIDY	981.00 *
W640453	NGUYEN, ANNIE	RENT SUBSIDY	1,438.00 *
W640456	NGUYEN, BINH NGOC	RENT SUBSIDY	1,562.00 *
W640456	NGUYEN, BINH QUOC	RENT SUBSIDY	2,321.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640457	NGUYEN, BRIAN BAO-KHA	RENT SUBSIDY	2,956.00 *
W640458	NGUYEN, CALVIN H	RENT SUBSIDY	932.00 *
W640459	NGUYEN, CHI HUYEN	RENT SUBSIDY	1,718.00 *
W640460	NGUYEN, CHRISTINE	RENT SUBSIDY	729.00 *
W640460	NGUYEN, CHRISTOPHER	RENT SUBSIDY	1,411.00 *
W640460	NGUYEN, CHUONG	RENT SUBSIDY	1,282.00 *
W640460	NGUYEN, CUONG	RENT SUBSIDY	2,186.00 *
W640461	NGUYEN, DAT	RENT SUBSIDY	1,504.00 *
W640461	NGUYEN, DAVID / HA, LOAN T	RENT SUBSIDY	1,696.00 *
W640461	NGUYEN, DEBBY AND DAVID	RENT SUBSIDY	1,618.00 *
W640461	NGUYEN, DENISE LOAN THU	RENT SUBSIDY	1,454.00 *
W640461	NGUYEN, DIEM-THUY	RENT SUBSIDY	1,348.00 *
W640461	NGUYEN, DONG	RENT SUBSIDY	1,129.00 *
W640461	NGUYEN, DUONG	RENT SUBSIDY	2,690.00 *
W640461	NGUYEN, DZUNG DAN	RENT SUBSIDY	954.00 *
W640463	NGUYEN, HANH V	RENT SUBSIDY	1,423.00 *
W640463	NGUYEN, HAO & HUONG T	RENT SUBSIDY	2,213.00 *

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640464	NGUYEN, HOA THI OR NGUYEN, JOSEPH	RENT SUBSIDY	4,317.00 *
W640464	NGUYEN, HOAN VAN	RENT SUBSIDY	812.00 *
W640465	NGUYEN, HUAN NGOC	RENT SUBSIDY	1,292.00 *
W640465	NGUYEN, HUE THI	RENT SUBSIDY	1,029.00 *
W640466	NGUYEN, HUNG	RENT SUBSIDY	1,817.00 *
W640466	NGUYEN, HUNG THANH	RENT SUBSIDY	298.00 *
W640466	NGUYEN, HUNG X	RENT SUBSIDY	1,189.00 *
W640466	NGUYEN, HUONG THY OR PHAM, TIEN D	RENT SUBSIDY	1,134.00 *
W640466	NGUYEN, JEANNIE	RENT SUBSIDY	938.00 *
W640466	NGUYEN, JOHN QUANG	RENT SUBSIDY	1,682.00 *
W640467	NGUYEN, KENNETH	RENT SUBSIDY	1,202.00 *
W640467	NGUYEN, KHAI HUE	RENT SUBSIDY	895.00 *
W640467	NGUYEN, KHANH	RENT SUBSIDY	2,004.00 *
W640468	NGUYEN, KHOI	RENT SUBSIDY	1,343.00 *
W640468	NGUYEN, KIEN	RENT SUBSIDY	4,591.00 *
W640468	NGUYEN, KIMCHI THI	RENT SUBSIDY	696.00 *
W640468	NGUYEN, KIMCHUNG	RENT SUBSIDY	544.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640468	NGUYEN, LANIE	RENT SUBSIDY	2,345.00 *
W640469	NGUYEN, LINDA	RENT SUBSIDY	2,134.00 *
W640469	NGUYEN, LINDA LIEN	RENT SUBSIDY	1,791.00 *
W640471	NGUYEN, LONG HUYEN DAC	RENT SUBSIDY	4,707.00 *
W640471	NGUYEN, LUONG	RENT SUBSIDY	1,031.00 *
W640471	NGUYEN, LYNDA	RENT SUBSIDY	784.00 *
W640472	NGUYEN, MAI H	RENT SUBSIDY	1,963.00 *
W640472	NGUYEN, MAN M	RENT SUBSIDY	1,263.00 *
W640472	NGUYEN, MICHAEL Q	RENT SUBSIDY	1,365.00 *
W640472	NGUYEN, MICHAEL THANG	RENT SUBSIDY	1,798.00 *
W640472	NGUYEN, MIMI	RENT SUBSIDY	1,019.00 *
W640472	NGUYEN, MY THI	RENT SUBSIDY	945.00 *
W640472	NGUYEN, MYLY	RENT SUBSIDY	1,221.00 *
W640472	NGUYEN, MYRA D	RENT SUBSIDY	3,148.00 *
W640472	NGUYEN, NANCY	RENT SUBSIDY	6,847.00 *
W640472	NGUYEN, NGHIA	RENT SUBSIDY	716.00 *
W640472	NGUYEN, NHUONG	RENT SUBSIDY	1,157.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640472	NGUYEN, NGHI	RENT SUBSIDY	2,132.00 *
W640473	NGUYEN, ORCHID	RENT SUBSIDY	1,355.00 *
W640473	NGUYEN, OSCAR THUAN	RENT SUBSIDY	1,882.00 *
W640473	NGUYEN, PETER	RENT SUBSIDY	2,153.00 *
W640473	NGUYEN, PHONG	RENT SUBSIDY	1,086.00 *
W640473	NGUYEN, PHUONG MY THI	RENT SUBSIDY	8,386.00 *
W640473	NGUYEN, QUAN	RENT SUBSIDY	1,955.00 *
W640474	NGUYEN, SKY	RENT SUBSIDY	1,139.00 *
W640474	NGUYEN, SON DINH	RENT SUBSIDY	1,155.00 *
W640474	NGUYEN, STEVE	RENT SUBSIDY	2,260.00 *
W640475	NGUYEN, STEVEN	RENT SUBSIDY	886.00 *
W640476	NGUYEN, STEVENS	RENT SUBSIDY	1,672.00 *
W640478	NGUYEN, THAI DUC	RENT SUBSIDY	1,422.00 *
W640480	NGUYEN, THANH-LE	RENT SUBSIDY	1,496.00 *
W640480	NGUYEN, THANH-NHAN	RENT SUBSIDY	1,722.00 *
W640482	NGUYEN, THUY	RENT SUBSIDY	1,826.00 *
W640483	NGUYEN, TIENG KIM	RENT SUBSIDY	1,947.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640483	NGUYEN, TIEP	RENT SUBSIDY	1,661.00 *
W640483	NGUYEN, TIMMY	RENT SUBSIDY	107.00 *
W640483	NGUYEN, TOM ANH	RENT SUBSIDY	480.00 *
W640483	NGUYEN, TRACY TRUC	RENT SUBSIDY	707.00 *
W640484	NGUYEN, TU THANH	RENT SUBSIDY	1,489.00 *
W640484	NGUYEN, TUAN HOANG	RENT SUBSIDY	1,882.00 *
W640484	NGUYEN, TUAN NGOC	RENT SUBSIDY	1,867.00 *
W640484	NGUYEN, TUNG QUOC	RENT SUBSIDY	1,881.00 *
W640484	NGUYEN, TUNG XUAN	RENT SUBSIDY	1,044.00 *
W640484	NGUYEN, TUYET TRINH	RENT SUBSIDY	2,340.00 *
W640484	NGUYEN, VAN HUY	RENT SUBSIDY	1,744.00 *
W640484	NGUYEN, VANANH & DO, SOAN P	RENT SUBSIDY	1,024.00 *
W640485	NGUYEN, VIVIAN	RENT SUBSIDY	1,262.00 *
W640485	NGUYEN, VU	RENT SUBSIDY	1,267.00 *
W640486	NGUYEN, CANG	RENT SUBSIDY	1,079.00 *
W640487	NGUYEN, DUNG VAN	RENT SUBSIDY	883.00 *
W640487	NGUYEN, HAN	RENT SUBSIDY	950.00 *

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640488	NGUYEN, HUY	RENT SUBSIDY	1,840.00 *
W640488	NGUYEN, HUYEN T.T.	RENT SUBSIDY	2,707.00 *
W640488	NGUYEN, JAMES	RENT SUBSIDY	978.00 *
W640488	NGUYEN, LANI LAN T	RENT SUBSIDY	965.00 *
W640488	NGUYEN, LAN-NGOC	RENT SUBSIDY	1,189.00 *
W640488	NGUYEN, LEYNA T	RENT SUBSIDY	1,124.00 *
W640488	NGUYEN, MICHELLE	RENT SUBSIDY	570.00 *
W640488	NGUYEN, MINH NGOC	RENT SUBSIDY	1,172.00 *
W640490	NGUYEN, PERRY	RENT SUBSIDY	1,138.00 *
W640491	NGUYEN, THANH	RENT SUBSIDY	3,143.00 *
W640491	NGUYEN, THANH-NGHIA	RENT SUBSIDY	109.00 *
W640491	NGUYEN, THANH-TUYEN	RENT SUBSIDY	1,030.00 *
W640491	NGUYEN, THINH THI	RENT SUBSIDY	7,252.00 *
W640491	NGUYEN, TIFFANY	RENT SUBSIDY	2,223.00 *
W640491	NGUYEN, TIM	RENT SUBSIDY	482.00 *
W640493	NGUYEN, WIN	RENT SUBSIDY	1,228.00 *
W640493	NGUYEN, XUAN YEN	RENT SUBSIDY	950.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640493	NGUYEN-LAM, PHIYEN TERESA	RENT SUBSIDY	1,405.00 *
W640493	NGUYEN-THIEN-NH, DIANA	RENT SUBSIDY	2,600.00 *
W640494	NHIEU, CUONG C.	RENT SUBSIDY	275.00 *
W640494	NORMANDY APARTMENTS, LLC	RENT SUBSIDY	939.00 *
W640495	OLSEN, MARIEL J	RENT SUBSIDY	1,215.00 *
W640495	OMDAHL, JOHN	RENT SUBSIDY	1,238.00 *
W640495	ORANGE COUNTY COMMUNITY HOUSING CORP	RENT SUBSIDY	24,741.00 *
W640495	ORANGE TREE APTS	RENT SUBSIDY	15,080.00 *
W640495	OZAKI, SUIKO	RENT SUBSIDY	1,154.00 *
W640495	P & J PROPERTY MANAGEMENT	RENT SUBSIDY	1,057.00 *
W640495	PAHU, BRADRAKUMAR L	RENT SUBSIDY	760.00 *
W640495	PALM COURT APARTMENTS	RENT SUBSIDY	732.00 *
W640496	PALM ISLAND	RENT SUBSIDY	11,755.00 *
W640496	PALM VISTA APTS - RENTAL OFFICE -	RENT SUBSIDY	1,104.00 *
W640496	PALMYRA SENIOR APARTMENTS	RENT SUBSIDY	842.00 *
W640497	PARISIAN APARTMENTS, LP	RENT SUBSIDY	1,059.00 *
W640497	PARK LANDING APARTMENTS	RENT SUBSIDY	1,277.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640497	PARK PLACE APTS LLP	RENT SUBSIDY	3,503.00 *
W640499	PATEL DILIP M	RENT SUBSIDY	4,789.00 *
W640499	PATEL, SMITA DIPAK	RENT SUBSIDY	1,107.00 *
W640501	PELICAN INVESTMENTS #6 LLC	RENT SUBSIDY	3,262.00 *
W640501	PELICAN INVESTMENTS #8 LLC	RENT SUBSIDY	1,301.00 *
W640501	PELICAN INVESTMENTS, LLC	RENT SUBSIDY	578.00 *
W640501	PETITE ELISE, LLC	RENT SUBSIDY	793.00 *
W640502	PHAM, BINH Q	RENT SUBSIDY	1,342.00 *
W640502	PHAM, CAROLINE	RENT SUBSIDY	3,124.00 *
W640502	PHAM, CHIEN DINH	RENT SUBSIDY	1,794.00 *
W640503	PHAM, DAVID LINH	RENT SUBSIDY	1,828.00 *
W640503	PHAM, DUNG TIEN	RENT SUBSIDY	1,570.00 *
W640503	PHAM, HIEU	RENT SUBSIDY	1,088.00 *
W640503	PHAM, HOANG	RENT SUBSIDY	3,553.00 *
W640503	PHAM, KATHY NGUYEN	RENT SUBSIDY	1,256.00 *
W640503	PHAM, KHANG	RENT SUBSIDY	992.00 *
W640503	PHAM, KIM ANH OR PHAM, LUCY	RENT SUBSIDY	2,338.00 *

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640503	PHAM, LAN VAN	RENT SUBSIDY	2,485.00 *
W640503	PHAM, LIEN	RENT SUBSIDY	1,076.00 *
W640503	PHAM, MINH VAN	RENT SUBSIDY	1,939.00 *
W640503	PHAM, NGHIA	RENT SUBSIDY	1,281.00 *
W640503	PHAM, PHUONG T	RENT SUBSIDY	1,152.00 *
W640504	PHAM, QUYNH GIAO	RENT SUBSIDY	2,211.00 *
W640504	PHAM, RICHARD	RENT SUBSIDY	665.00 *
W640504	PHAM, SON THAI	RENT SUBSIDY	1,137.00 *
W640504	PHAM, THANH QUOC	RENT SUBSIDY	3,006.00 *
W640504	PHAM, TIEN M	RENT SUBSIDY	547.00 *
W640504	PHAM, TIM	RENT SUBSIDY	2,287.00 *
W640504	PHAM, TRI	RENT SUBSIDY	1,476.00 *
W640504	PHAM, TUAN A	RENT SUBSIDY	1,192.00 *
W640504	PHAM, TUAN A.	RENT SUBSIDY	1,060.00 *
W640504	PHAM, TRUONG TAI	RENT SUBSIDY	2,174.00 *
W640505	PHAM, VAN LOAN THI	RENT SUBSIDY	863.00 *
W640506	PHAM, VERONIQUE	RENT SUBSIDY	1,106.00 *

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640506	PHAM, VU	RENT SUBSIDY	1,036.00 *
W640506	PHAM, XUANNHA T	RENT SUBSIDY	1,026.00 *
W640506	PHAM, HAI MINH	RENT SUBSIDY	8,608.00 *
W640506	PHAM, HELEN	RENT SUBSIDY	921.00 *
W640507	PHAM, QUANG	RENT SUBSIDY	1,154.00 *
W640507	PHAN, OANH	RENT SUBSIDY	3,235.00 *
W640507	PHAN, TAMMY	RENT SUBSIDY	1,314.00 *
W640507	PHAN, THANH T	RENT SUBSIDY	513.00 *
W640509	PHAN, DON	RENT SUBSIDY	1,282.00 *
W640509	PHAN, TOAN CONG	RENT SUBSIDY	893.00 *
W640509	PHARN, ART S	RENT SUBSIDY	1,637.00 *
W640509	PHUNG, JENNIFER	RENT SUBSIDY	1,901.00 *
W640509	PINE TREE PROPERTY, LLC	RENT SUBSIDY	2,057.00 *
W640509	PINCEK, DAVID	RENT SUBSIDY	809.00 *
W640510	PJP PROPERTIES, LLC	RENT SUBSIDY	1,899.00 *
W640510	PLANO HOUSING AUTHORITY	PORTABILITY ADMIN	165.14 *
W640510	PLANO HOUSING AUTHORITY	RENT SUBSIDY	2,028.00 *
W640510	PLAZA PATRIA COURT LTD	RENT SUBSIDY	930.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640511	PLYMOUTH HRA	PORTABILITY ADMIN	60.63 *
W640511	PLYMOUTH HRA	RENT SUBSIDY	637.00 *
W640511	PM-AM INVESTMENT LLC	RENT SUBSIDY	681.00 *
W640511	PORTILLO, OSCAR OR ANISA	RENT SUBSIDY	1,427.00 *
W640511	POKAL, SAILESH	RENT SUBSIDY	948.00 *
W640512	POWELL, LEO OR DEBORAH	RENT SUBSIDY	3,823.00 *
W640512	PP TT, LLC	RENT SUBSIDY	2,685.00 *
W640512	PRINCE NEW HORIZON VILLAGE	RENT SUBSIDY	4,146.00 *
W640512	PUGH, RONNIE	RENT SUBSIDY	869.00 *
W640512	QUACH, JAMIE	RENT SUBSIDY	1,064.00 *
W640512	QUACH, SAN T	RENT SUBSIDY	1,107.00 *
W640512	QUAN, DERRICK WILLIAM	RENT SUBSIDY	1,151.00 *
W640512	QUAN, JEANNIE	RENT SUBSIDY	1,203.00 *
W640512	QUAN, VAN-LAN	RENT SUBSIDY	941.00 *
W640515	RAVART PACIFIC LP	RENT SUBSIDY	906.00 *
W640515	RAVENWOOD PROPERTIES, LLC	RENT SUBSIDY	1,140.00 *
W640516	REED, ROGER LEE	RENT SUBSIDY	1,983.00 *
W640516	REO INTERNATIONAL CORPORATION	RENT SUBSIDY	1,276.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640516	REYES, RAYMOND	RENT SUBSIDY	1,001.00 *
W640516	ROANOKE INC	RENT SUBSIDY	1,217.00 *
W640516	ROBERTA APTS LP	RENT SUBSIDY	1,737.00 *
W640517	RODRIGUEZ, ALBERT/PATRICIA	RENT SUBSIDY	1,228.00 *
W640517	ROMO, JULIETA	RENT SUBSIDY	549.00 *
W640517	ROSSIGNOL, CHARLENE	RENT SUBSIDY	705.00 *
W640518	SABUNJIAN, MIHRAN	RENT SUBSIDY	6,241.00 *
W640519	SAN DIEGO HOUSING COMMISSION	PORTABILITY ADMIN	67.78 *
W640519	SAN DIEGO HOUSING COMMISSION	RENT SUBSIDY	637.00 *
W640521	SARGENT, PAT	RENT SUBSIDY	1,140.00 *
W640521	SCHLEIFER, JILL ANN	RENT SUBSIDY	2,341.00 *
W640522	SCWJ, LLC	RENT SUBSIDY	1,134.00 *
W640522	SCOTT G JOE	RENT SUBSIDY	1,056.00 *
W640522	SCULLIN, ALFRED L	RENT SUBSIDY	1,151.00 *
W640523	SEO, LISA & BRYAN	RENT SUBSIDY	1,142.00 *
W640523	SERRANO WOODS, LP	RENT SUBSIDY	944.00 *
W640523	SHIH, MOLLY	RENT SUBSIDY	1,417.00 *
W640523	SHREEVES PROPERTIES, LLC	RENT SUBSIDY	5,169.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640523	SIGEL, IRV D	RENT SUBSIDY	917.00 *
W640523	SERNA, ALVINA	RENT SUBSIDY	582.00 *
W640524	SINGING TREE	RENT SUBSIDY	1,177.00 *
W640524	SIU, BAY	RENT SUBSIDY	1,206.00 *
W640524	SPEARS, JAMES	RENT SUBSIDY	985.00 *
W640524	SPRINGDALE STREET APARTMENTS	RENT SUBSIDY	3,244.00 *
W640524	SPRINGDALE VILLA APTS	RENT SUBSIDY	224.00 *
W640524	SPRINGSIDE, LLC	RENT SUBSIDY	7,551.00 *
W640524	SILVERSTEIN, IRVIN	RENT SUBSIDY	499.00 *
W640525	STANTON GROUP, LLC	RENT SUBSIDY	1,638.00 *
W640526	STEWART PROPERTIES	RENT SUBSIDY	886.00 *
W640526	STIDHAM, ERICA	RENT SUBSIDY	3,996.00 *
W640526	STRUCTURE PROPERTY MGMT GROUP	RENT SUBSIDY	1,187.00 *
W640528	SU, UN	RENT SUBSIDY	1,929.00 *
W640528	SUMAC APARTMENT LLC	RENT SUBSIDY	453.00 *
W640528	SUNGROVE SENIOR APTS	RENT SUBSIDY	18,901.00 *
W640528	SUNNYGATE, LLC	RENT SUBSIDY	3,029.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640528	SUNRISE VILLAGE PROPERTIES, LLC	RENT SUBSIDY	7,033.00 *
W640528	SUNWISE PROPERTIES LLC	RENT SUBSIDY	727.00 *
W640528	SWEIDA, EMILE J	RENT SUBSIDY	1,150.00 *
W640528	SYCAMORE COURT APARTMENTS	RENT SUBSIDY	6,448.00 *
W640528	SYLVAN REALTY INC	RENT SUBSIDY	945.00 *
W640528	T AND G TRANG'S CREDIT TRUST UDT 5/1/02	RENT SUBSIDY	1,845.00 *
W640528	STUART DRIVE/ROSE GARDEN APTS	RENT SUBSIDY	83,386.00 *
W640529	TA, VINH	RENT SUBSIDY	1,782.00 *
W640529	TAHAMI, ALI	RENT SUBSIDY	1,520.00 *
W640529	TAMERLANE APARTMENTS	RENT SUBSIDY	1,761.00 *
W640529	TANG, ENLIANG T	RENT SUBSIDY	1,052.00 *
W640529	TDT WASHINGTON, LLC	RENT SUBSIDY	1,786.00 *
W640529	TAMERLANE ASSOCIATES LLC	RENT SUBSIDY	2,246.00 *
W640530	THACH, HENRY	RENT SUBSIDY	1,930.00 *
W640530	THAI, PAULA	RENT SUBSIDY	2,620.00 *
W640530	THE BERNTH FAMILY TRUST	RENT SUBSIDY	3,081.00 *
W640530	THE CORINTHIAN APARTMENTS	RENT SUBSIDY	815.00 *



## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640530	THE FLORENTINE APTS	RENT SUBSIDY	871.00 *
W640530	THE GROVE SENIOR APARTMENTS	RENT SUBSIDY	35,924.00 *
W640530	THE HUNTINGTON WESTMINSTER	RENT SUBSIDY	7,236.00 *
W640531	THE MEDITERRANEAN APTS	RENT SUBSIDY	951.00 *
W640532	THE ROSE GARDEN APTS	RENT SUBSIDY	4,192.00 *
W640535	TIET, THAO PHUONG	RENT SUBSIDY	628.00 *
W640535	TLHA PALM LLC	RENT SUBSIDY	1,828.00 *
W640535	TN INVESTMENTS GROUP, LLC	RENT SUBSIDY	22,644.00 *
W640535	TN INVESTMENTS PROPERTIES, LLC	RENT SUBSIDY	13,814.00 *
W640535	TO, KIMTRUNG THI	RENT SUBSIDY	1,185.00 *
W640535	TO, VAN THU	RENT SUBSIDY	5,206.00 *
W640535	TON, TAP THAT	RENT SUBSIDY	3,107.00 *
W640535	THULSIRAJ, ANA MARIA	RENT SUBSIDY	2,878.00 *
W640535	TIC INVESTMENT COMPANY LLC	RENT SUBSIDY	3,526.00 *
W640535	TLHA DOTY, LLC	RENT SUBSIDY	3,112.00 *
W640535	TOC TOC, LLC	RENT SUBSIDY	2,012.00 *
W640536	TON, KHANH	RENT SUBSIDY	1,654.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640536	TONNU, JOANNE C	RENT SUBSIDY	1,697.00 *
W640536	TOPADVANCED, LLC	RENT SUBSIDY	2,027.00 *
W640536	TRAN, ANDREW	RENT SUBSIDY	6,094.00 *
W640536	TRAN, ANH TUYET T	RENT SUBSIDY	1,057.00 *
W640536	TRAN, ANTON	RENT SUBSIDY	811.00 *
W640536	TRAN, BAC	RENT SUBSIDY	1,009.00 *
W640536	TRAN, CATHY	RENT SUBSIDY	1,041.00 *
W640536	TRAN, CHUONG V.	RENT SUBSIDY	650.00 *
W640536	TRAN, DIEP NGOC	RENT SUBSIDY	1,278.00 *
W640536	TRAN'S APARTMENTS	RENT SUBSIDY	5,172.00 *
W640537	TRAN, FREDERICK M	RENT SUBSIDY	938.00 *
W640538	TRAN, HENRY	RENT SUBSIDY	1,309.00 *
W640538	TRAN, HIEP OR TRAN, JACLYN	RENT SUBSIDY	2,823.00 *
W640538	TRAN, HO VAN	RENT SUBSIDY	5,019.00 *
W640538	TRAN, HOA THU	RENT SUBSIDY	1,150.00 *
W640538	TRAN, HOANG N	RENT SUBSIDY	1,027.00 *
W640538	TRAN, HUNG QUOC	RENT SUBSIDY	862.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640538	TRAN, JANE	RENT SUBSIDY	1,159.00 *
W640538	TRAN, JIM DUC	RENT SUBSIDY	1,420.00 *
W640538	TRAN, HOA	RENT SUBSIDY	1,308.00 *
W640539	TRAN, JOSEPHINE	RENT SUBSIDY	1,728.00 *
W640539	TRAN, KEVIN THANH	RENT SUBSIDY	976.00 *
W640539	TRAN, KIM	RENT SUBSIDY	1,879.00 *
W640539	TRAN, KIM VAN	RENT SUBSIDY	1,248.00 *
W640539	TRAN, LAN DANG	RENT SUBSIDY	1,373.00 *
W640539	TRAN, LAY THI	RENT SUBSIDY	1,327.00 *
W640539	TRAN, LOC H	RENT SUBSIDY	1,601.00 *
W640539	TRAN, LUAN D.	RENT SUBSIDY	1,039.00 *
W640540	TRAN, MAI	RENT SUBSIDY	1,613.00 *
W640540	TRAN, MARY	RENT SUBSIDY	129.00 *
W640540	TRAN, MY T	RENT SUBSIDY	802.00 *
W640540	TRAN, NGOC THI	RENT SUBSIDY	1,077.00 *
W640540	TRAN, NHUT NGUYEN	RENT SUBSIDY	2,964.00 *
W640540	TRAN, RYAN	RENT SUBSIDY	1,316.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640540	TRAN, SHELLY	RENT SUBSIDY	1,146.00 *
W640540	TRAN, SON THANH	RENT SUBSIDY	836.00 *
W640540	TRAN, SONNY	RENT SUBSIDY	1,081.00 *
W640540	TRAN, TAM ANH	RENT SUBSIDY	1,794.00 *
W640540	TRAN, TAM MINH	RENT SUBSIDY	1,337.00 *
W640541	TRAN, THERESA T	RENT SUBSIDY	1,000.00 *
W640541	TRAN, THONG	RENT SUBSIDY	1,275.00 *
W640541	TRAN, THU HUONG THI	RENT SUBSIDY	672.00 *
W640542	TRAN, TIM	RENT SUBSIDY	995.00 *
W640542	TRAN, TINA	RENT SUBSIDY	1,955.00 *
W640542	TRAN, TRI	RENT SUBSIDY	1,279.00 *
W640542	TRAN, TRUNG H.	RENT SUBSIDY	2,111.00 *
W640542	TRAN, TRUYEN & HELEN	RENT SUBSIDY	1,758.00 *
W640542	TRAN, TU	RENT SUBSIDY	1,308.00 *
W640542	TRAN, TYNE TUYEN	RENT SUBSIDY	1,230.00 *
W640543	TRAN, VICTORIA	RENT SUBSIDY	1,044.00 *
W640543	TRAN,BAU	RENT SUBSIDY	913.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640543	TRAN, DANNY	RENT SUBSIDY	1,242.00 *
W640543	TRAN, HUY	RENT SUBSIDY	953.00 *
W640543	TRAN, PAUL TUAN DUC	RENT SUBSIDY	1,338.00 *
W640543	TRAN, THAO DUC	RENT SUBSIDY	1,334.00 *
W640543	TRAN, THU-HANG	RENT SUBSIDY	852.00 *
W640544	TRANG, TOM	RENT SUBSIDY	1,446.00 *
W640546	TRIEU, NANCY	RENT SUBSIDY	1,216.00 *
W640546	TRINH, EMMA	RENT SUBSIDY	793.00 *
W640546	TRINH, HAI	RENT SUBSIDY	1,619.00 *
W640546	TRIEU, HONG QUANG	RENT SUBSIDY	1,009.00 *
W640548	TRINH, TUAN	RENT SUBSIDY	1,295.00 *
W640548	TRINH, TUNG XUAN	RENT SUBSIDY	1,281.00 *
W640549	TRUONG, DUNG T	RENT SUBSIDY	391.00 *
W640549	TRUONG, HANH NGOC	RENT SUBSIDY	831.00 *
W640549	TRUONG, KHOA BUU	RENT SUBSIDY	1,166.00 *
W640549	TRUONG, STEVE OR HO, NATALIE	RENT SUBSIDY	1,616.00 *
W640551	TRUONG, QUYEN MY	RENT SUBSIDY	1,220.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640552	TSAI, CAROLINE	RENT SUBSIDY	2,896.00 *
W640552	TSAO, YUNGLIN & SHU-MEI	RENT SUBSIDY	1,070.00 *
W640552	TU BI THIEN TAM	RENT SUBSIDY	2,556.00 *
W640554	TUDOR GROVE	RENT SUBSIDY	66,624.00 *
W640555	TUSTIN AFFORDABLE HOUSING ATTN: OFFICE	RENT SUBSIDY	1,013.00 *
W640555	TUSTIN SOUTHERN APTS - OFFICE	RENT SUBSIDY	1,195.00 *
W640555	V W PROPERTY	RENT SUBSIDY	5,245.00 *
W640555	VAN, MINH XUONG c/o KEVIN VAN	RENT SUBSIDY	634.00 *
W640555	VAZQUEZ, ARTURO ENRIQUEZ	RENT SUBSIDY	2,640.00 *
W640555	VERSAILLES APTS	RENT SUBSIDY	3,358.00 *
W640555	VALLEY VIEW SENIOR APTS	RENT SUBSIDY	8,654.00 *
W640557	VINTAGE CANYON SR APTS	RENT SUBSIDY	1,014.00 *
W640558	VIRAMONTES, ARTHUR E	RENT SUBSIDY	761.00 *
W640559	VJ SURGICAL, LLC	RENT SUBSIDY	1,828.00 *
W640559	VLE RENTAL, LLC	RENT SUBSIDY	4,390.00 *
W640559	VO, JEFF	RENT SUBSIDY	951.00 *
W640561	VO, LOAN	RENT SUBSIDY	1,500.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640561	VO, LOC ANH	RENT SUBSIDY	1,072.00 *
W640564	VORA, NIPA D	RENT SUBSIDY	1,439.00 *
W640565	VT CAPITAL HOLDINGS, LLC	RENT SUBSIDY	931.00 *
W640565	VU, ANN HUONG	RENT SUBSIDY	713.00 *
W640565	VU, ANNIE	RENT SUBSIDY	1,281.00 *
W640565	VU, ANTHONY HAI	RENT SUBSIDY	1,304.00 *
W640565	VU, DAT	RENT SUBSIDY	11,331.00 *
W640565	VU, DAVID	RENT SUBSIDY	538.00 *
W640565	VU, DEAN	RENT SUBSIDY	1,361.00 *
W640566	VU, HOA	RENT SUBSIDY	987.00 *
W640566	VU, HUAN	RENT SUBSIDY	907.00 *
W640566	VU, KATHY HUONG	RENT SUBSIDY	352.00 *
W640566	VU, LEO M	RENT SUBSIDY	1,861.00 *
W640566	VU, LINH DUY	RENT SUBSIDY	1,766.00 *
W640566	VU, LONG DUC	RENT SUBSIDY	746.00 *
W640566	VU, MARY ANN	RENT SUBSIDY	723.00 *
W640566	VU, MINH	RENT SUBSIDY	205.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640567	VU, NAM HA	RENT SUBSIDY	1,705.00 *
W640567	VU, PHAT D	RENT SUBSIDY	3,695.00 *
W640567	VU, PHUONG MINH	RENT SUBSIDY	1,526.00 *
W640567	VU, TAN DUY	RENT SUBSIDY	1,435.00 *
W640568	VU, THERESE	RENT SUBSIDY	1,264.00 *
W640568	VU, TRUNG QUOC	RENT SUBSIDY	2,542.00 *
W640568	VU, VIVIAN	RENT SUBSIDY	584.00 *
W640569	VU, TRACY	RENT SUBSIDY	1,850.00 *
W640569	VUONG, HELEN DO	RENT SUBSIDY	990.00 *
W640569	VUONG, TRI NGHIEP	RENT SUBSIDY	950.00 *
W640570	WALKMAN, SID D	RENT SUBSIDY	1,433.00 *
W640570	WAN, HO PONG	RENT SUBSIDY	867.00 *
W640570	WANG, CHARLES	RENT SUBSIDY	4,204.00 *
W640570	WANG, SUZY	RENT SUBSIDY	1,984.00 *
W640570	WASHINGTON COUNTY HRA	PORTABILITY ADMIN	61.04 *
W640570	WASHINGTON COUNTY HRA	RENT SUBSIDY	1,337.00 *
W640570	WEGENER, STELLA	RENT SUBSIDY	945.00 *
W640570	WEISER, IRVING	RENT SUBSIDY	1,694.00 *



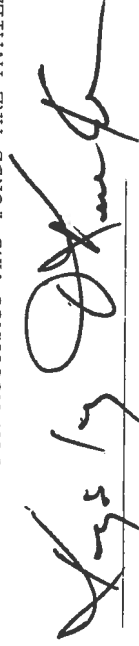
## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640570	WEISSER INVESTMENTS	RENT SUBSIDY	6,242.00 *
W640570	WESLEY VILLAGE APARTMENTS	RENT SUBSIDY	9,667.00 *
W640570	WESSELN, HENRY B	RENT SUBSIDY	873.00 *
W640571	WESTCHESTER PARK LP	RENT SUBSIDY	1,318.00 *
W640571	WESTLAKE APARTMENTS LLC	RENT SUBSIDY	6,155.00 *
W640571	WESTMINSTER HOUSING PARTNER LP	RENT SUBSIDY	8,310.00 *
W640571	WESTPARK APTS	RENT SUBSIDY	1,143.00 *
W640571	WESTPARK PLACE, LLC	RENT SUBSIDY	1,042.00 *
W640571	WICK, CINDY OR ED	RENT SUBSIDY	932.00 *
W640571	WILLOWICK ROYAL ATTN: MANAGER OFFICE	RENT SUBSIDY	333.00 *
W640571	WILSHIRE CREST	RENT SUBSIDY	968.00 *
W640571	WINDSOR TOWNE LP	RENT SUBSIDY	760.00 *
W640571	WINDMILL APARTMENTS	RENT SUBSIDY	5,393.00 *
W640572	WINDWOOD GLEN APTS	RENT SUBSIDY	623.00 *
W640573	WINSTON PLACE, LLC	RENT SUBSIDY	1,168.00 *
W640573	WONDERFUL IDEA, LLC	RENT SUBSIDY	1,229.00 *
W640573	WONG, GIN O	RENT SUBSIDY	6,458.00 *

## WARRANTS SUBMITTED TO CITY COUNCIL FOR APPROVAL 07/01/18

WARRANT	VENDOR	DESCRIPTION	AMOUNT
W640573	WONG, PHILLIP	RENT SUBSIDY	1,476.00 *
W640573	WONG, THOMAS G.	RENT SUBSIDY	1,180.00
W640573	WINNIE INVESTMENT	RENT SUBSIDY	5,982.00
W640574	YAU, LEON SHU	RENT SUBSIDY	777.00
W640575	YOUNG, HENRY H	RENT SUBSIDY	893.00
W640575	ZARGARI, ROY	RENT SUBSIDY	1,039.00
W640575	ZASLAVSKY, EUGENIA	RENT SUBSIDY	3,673.00
FINAL TOTAL			2,530,370.57

DEMANDS #640316 - 640576 AND WIRES W640315 - W640575 AS PRESENTED IN THE WARRANT REGISTER SUBMITTED TO THE GARDEN GROVE CITY COUNCIL JULY 1, 2018, HAVE BEEN AUDITED FOR ACCURACY AND FUNDS ARE AVAILABLE FOR PAYMENT THEREOF



KINGSLY C. OKEREKE - FINANCE DIRECTOR

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Adoption of a Resolution ordering the vacation of general easements for public utility purposes for a portion of the property located at 11235 Bowles Avenue, Garden Grove. ( <i>Action Item</i> )		
		Date:	7/10/2018

---

**OBJECTIVE**

For the City Council to hold a Public Hearing, and adopt the attached Resolution to vacate general easements for public utility purposes for a portion of the property located at 11235 Bowels Avenue, Garden Grove.

**BACKGROUND**

At its meeting on June 12, 2018 the City Council approved the Resolution of Intent No.9515-18, to process a General Vacation of Various Public Utility Easements, and to set a date for the Public Hearing.

A Notice of Vacation has been posted at the appropriate locations as per the attached affidavit and photos. Notice of the Public Hearing on the proposed vacation was also published for two successive weeks in the Orange County News pursuant to Streets and Highways Code Section 8322.

**DISCUSSION**

The subject easement areas are located in a diagonal direction across the two parcels of Lot Line Adjustment 007-2014, as recorded on January 31, 2017, as instrument No. 20170000044463, located on 11235 Bowles Avenue. The property across which the easements traverse is partially developed with a residential home on one of the parcels, and is surrounded by a single family residential neighborhood. To the southeast of the subject easement area is the existing Dewey Drive. The triangulated or diagonal easement areas to be vacated include: a strip of land measuring approximately 212 ft. long and 5 feet wide (1060 sq. ft.) as originally dedicated as part of the subdivision development map of Tract No. 3037, MM 88, pp 38 & 39; and

a strip of land approximately 30 ft. long and 6 feet in width (180 sq. ft.) as originally dedicated as an easement for utility installation, maintenance and incidental purposes via a document recorded April 26, 1956 as Book 3488, Page 427 of Official Records.

The Public Works Department has determined that the subject easement areas are no longer necessary to provide a public service easement and may be vacated without affecting the efficiency or effectiveness of any utility service system.

An easement for public utilities and incidental purposes as granted to the Pacific Telephone and Telegraph Company in a deed recorded June 6, 1956, in Book 3536 Page 269 of Official Records affecting the southerly 5 feet of said land has already been "quitclaimed" in a deed recorded August 31, 2016, as instrument number 2016000417374 by Pacific Bell Telephone Company.

City staff has verified that no public utilities (i.e. electric, communications, sewer, water or drainage) are currently located within the subject easement areas. Upon their vacation, use of the subject easement area will revert back to the underlying fee title owner, which in this case is the owner Khoung Vo.

Staff has been informed that the owner intends to improve the subject vacated areas with a new residential development and improving the area according to their needs.

On October 23, 2014, the Zoning Administrator approved Lot Line Adjustment 007-2014 with a finding that the proposed Lot Line Adjustment and developable parcels conforms to the City's General Plan.

#### FINANCIAL IMPACT

There is no impact to the General Fund.

#### RECOMMENDATION

It is recommended that the City Council:

- Conduct a Public Hearing;
- Adopt the attached Resolution ordering the general vacation of various public utility easements generally located across parcels 1 and 2 of Lot Line Adjustment No. 007-2014; and
- Authorize the City Clerk to record the Resolution with the County of Orange in order for vacations to become effective.

By: Kamyar Dibaj, MS  
Project Engineer

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
CC Resolution Ordering Vacation	7/5/2018	Resolution	7-10- 18_CC_Resolution_Ordering_VacationRevJE.docx
RESOLUTION 9515- 18	6/21/2018	Resolution	7-10-18_9515-18_VACATION_- _11235_Bowles_Ave__set_PH_7-10-18-1.pdf
AFFIDAVIT OF POSTING	6/21/2018	Backup Material	signed_affidavit_for_vacay.pdf
FIELD PICTURES	6/21/2018	Backup Material	BOWLES_EASEMENT_VACATION_1.pdf
FIELD PICTURES 2	6/21/2018	Backup Material	BOWLES_EASEMENT_VACATION_2.pdf
LLA PLAT EXHIBIT 007-2014	6/21/2018	Backup Material	7-10-18_LLA_07-2014_PLAT_EXHIBIT.pdf

GARDEN GROVE CITY COUNCIL

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE  
ORDERING THE GENERAL VACATION OF VARIOUS PUBLIC UTILITY EASEMENTS  
GENERALLY LOCATED ACROSS PARCELS 1 AND 2 OF LOT LINE ADJUSTMENT  
007-2014

WHEREAS, on June 12, 2018, the City Council duly adopted Resolution No. 9515-18 declaring intention to vacate various public utility easements over portions of Lots 1 and 2 of Lot Line Adjustment 007-2014, commonly known as 11235 Bowles Avenue, as described and depicted on the attached Exhibit A, which is incorporated herein by this reference, under the procedures established in Chapter 3, Section 8320, et. seq., of the Streets and Highways Code, and informing interested persons as to the date, time, and location for the Public Hearing to vacate said public utility easements on July 10, 2018;

WHEREAS, notices of the proposed vacation and Public Hearing were duly published and posted as required by law;

WHEREAS, a legal description and map specifically setting forth the proposed Street Vacation is on file in the office of the City Clerk of Garden Grove; and

WHEREAS, a public hearing was held by the City Council on July 10, 2018, and all interested persons were given the opportunity to be heard.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDEN GROVE DOES FIND, DETERMINE AND RESOLVE AS FOLLOWS:

SECTION 1. The foregoing recitals are true and correct.

SECTION 2. The City Council hereby incorporates by this reference as if set forth in full herein the Agenda Report prepared and submitted by City Staff in support of this Resolution along with all Attachments and Exhibits thereto.

SECTION 3. The City Council of the City of Garden Grove hereby orders the vacation and abandonment of those certain public utility easements over portions of Lots 1 and 2 of Lot Line Adjustment 007-2014, commonly known as 11235 Bowles Avenue, as described and depicted on Exhibit A attached hereto and incorporated herein by this reference.

SECTION 4. The City elects to proceed under the provisions Chapter 2, Part 3, Division 9 (Section 8320, et. seq.) of the California Streets and Highways Code.

SECTION 5. The City Council finds that the general public utility easements over portions of Lots 1 and 2 of Lot Line Adjustment 007-2014, commonly known as 11235 Bowles Avenue, is unnecessary for present or prospective public use.

SECTION 6. The City Council finds that this general vacation of public utility easements is exempt from the California Environmental Quality Act ("CEQA") (California Public Resources Code Section 21000 et seq.), pursuant to Section 15061(b)(3) and Section 15301 of the State CEQA Guidelines (14 Cal. Code Regs §15000 et seq.).

SECTION 7. The City Council finds that this general vacation of public utility easements is in conformity with the City's General Plan.

SECTION 8. The City Clerk shall record a certified copy of this Resolution, duly attested to by the City Clerk under seal of the City, in the Office of the Recorder of the County of Orange.

GARDEN GROVE CITY COUNCIL

RESOLUTION NO. 9515-18

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE  
DECLARING INTENT TO PROCESS A GENERAL VACATION OF VARIOUS PUBLIC  
UTILITY EASEMENTS OVER THOSE PARCELS 1 AND 2 OF LOT LINE  
ADJUSTMENT 007-2014

The City Council of the City of Garden Grove does hereby resolve as follows:

SECTION 1. Pursuant to Division 9, Part 3, Chapter 3 of the California Streets and Highways Code, commencing with Section 8320, the City Council of the City of Garden Grove hereby declares its intention to process general public utility easement vacations of those certain public use easements over portions of Lots 1 and 2 of Lot Line Adjustment 007-2014, commonly known as 11235 Bowles Avenue, as described and depicted on the attached Exhibit B, which is incorporated herein by this reference.

SECTION 2. The City Clerk is directed to maintain on file in the office of the City Clerk maps or plans showing the particulars of the proposed general public utility easement vacations of those certain public use easements over Lots 1 and 2 of Lot Line Adjustment 007-2014, and reference is hereby made to such maps and plans for particulars as to said proposed vacations.

SECTION 3. The City Council does hereby fix July 10, 2018, at 6:30 p.m., or as soon thereafter as the matter may be heard in the Community Meeting Center, 11300 Stanford Avenue, Garden Grove, California, as the time and place for hearing all persons interested in or objecting to the proposed vacation, which time is not less than fifteen (15) days from the passage of this Resolution.

SECTION 4. The City Clerk is directed to cause a copy of this Resolution to be published in a weekly newspaper, published and circulated in Garden Grove for at least two successive weeks prior to the time set herein for the Public Hearing.

SECTION 5. The Director of Public Works is directed to post, or cause to be posted, notice of vacation conspicuously along the easements proposed to be vacated at least two weeks before the date of the Public Hearing. The notice shall be posted not more than 300 feet apart, but at least three notices shall be posted. The notices shall state the day, hour and place of the Public Hearing, and shall refer to the adoption of this Resolution of Intention, and shall describe the easements or shall include a map or plan showing the location of the easements proposed to be vacated.



Adopted this 12<sup>th</sup> day of June 2018.

ATTEST:

/s/ STEVEN R. JONES  
MAYOR

/s/ TERESA POMEROY, CMC  
CITY CLERK

STATE OF CALIFORNIA    )  
COUNTY OF ORANGE     ) SS:  
CITY OF GARDEN GROVE )

I, TERESA POMEROY, City Clerk of the City of Garden Grove, do hereby certify that the foregoing Resolution was duly adopted by the City Council of the City of Garden Grove, California, at a meeting held on June 12, 2018, by the following vote:

AYES:	COUNCIL MEMBERS:	(6)	BEARD, O'NEILL, NGUYEN T., KLOPFENSTEIN, NGUYEN K., JONES
NOES:	COUNCIL MEMBERS:	(0)	NONE
ABSENT:	COUNCIL MEMBERS:	(1)	BUI

/s/ TERESA POMEROY, CMC  
CITY CLERK

EXHIBIT "B" LOT LINE ADJUSTMENT LLA NO. 14 - _____ (MAP)			SHEET 1 OF 3
OWNERS OF RECORD	EXISTING PARCEL A.P. NO.	PROPOSED PARCEL NO.	
KHOUNG VO, A MARRIED MAN	132-232-12	PARCEL 1	
	132-232-12.01	PARCEL 2	

NOTE:  
THE INFORMATION SHOWN HEREON IS PER TITLE REPORT ORDER NO: 624091 DATED JULY 21, 2014 BY LANDWOOD TITLE COMPANY. CIRCLED INDEX NUMBERS SHOWN BELOW INDICATE SCHEDULE B ITEMS WHICH BOTH AFFECT THE PROPERTY, AND HAVE SUFFICIENT MATHEMATICAL DATA TO BE SHOWN GRAPHICALLY. THESE ITEMS ARE SHOWN ON SUBSEQUENT SHEETS. ITEMS SHOWN WITHOUT CIRCLES ARE DEEMED TO BE "NOT PLOTTABLE" DUE TO THE LACK OF SUFFICIENT MATHEMATICAL DATA, OR THEY DO NOT DIRECTLY AFFECT THE SUBJECT PROPERTY.

1 THROUGH 4 NOT A SURVEY MATTER/NOT AN EASEMENT

5 AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, AS SHOWN AND DEDICATED BY THE MAP OF SAID TRACT.  
AFFECTS: A PORTION OF SAID LAND AS SHOWN ON TRACT MAP 3037 BEING PARCEL 1. (AFFECTS, PLOTTABLE AS SHOWN)

6 AN EASEMENT OR LESSER RIGHT, FOR THE PURPOSES HEREIN STATED, INCLUDING INCIDENTAL PURPOSES, DISCLOSED BY THE SURVEY, INSPECTION, OR INQUIRY  
FOR: PUBLIC UTILITIES  
AFFECTS: SOUTHWESTERLY 5 FEET OF PARCEL 2 OF SAID LAND. To be Vacated

7 COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS IN THE DOCUMENT RECORDED APRIL 26, 1956 AS BOOK 3488, PAGE 427 OF OFFICIAL RECORDS, WHICH PROVIDE THAT A VIOLATION THEREOF SHALL NOT DEFEAT OR RENDER INVALID THE LIEN OF ANY FIRST MORTGAGE OR DEED OF TRUST MADE IN GOOD FAITH AND FOR VALUE, BUT DELETING ANY COVENANT, CONDITION, OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, GENETIC INFORMATION, GENDER, GENDER IDENTITY, GENDER EXPRESSION, SOURCE OF INCOME (AS DEFINED IN CALIFORNIA GOVERNMENT CODE § 12955(P)) OR ANCESTRY, TO THE EXTENT SUCH COVENANTS, CONDITIONS OR RESTRICTIONS VIOLATION 42 U.S.C. § 3604(C) OR CALIFORNIA GOVERNMENT CODE § 12955. LAWFUL RESTRICTIONS UNDER STATE AND FEDERAL LAW ON THE AGE OF OCCUPANTS IN SENIOR HOUSING OR HOUSING FOR OLDER PERSONS SHALL NOT BE CONSTRUED AS RESTRICTIONS BASED ON FAMILIAL STATUS. (AFFECTS, PLOTTABLE AS SHOWN)

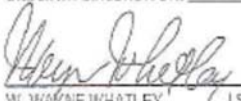
8 AN EASEMENT FOR THE PURPOSE SHOWN BELOW AND ANY RIGHTS INCIDENTAL THERETO, AS PROVIDED IN THE LAST ABOVE MENTIONED INSTRUMENT:  
PURPOSES: UTILITY INSTALLATION, MAINTENANCE AND INCIDENTAL PURPOSES  
AFFECTS: THE REAR 5 FEET OF SAID LAND (AFFECTS, PLOTTABLE AS SHOWN) To be Vacated


9 AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, AS GRANTED TO THE SOUTHERN CALIFORNIA EDISON COMPANY, A CORPORATION, IN A DEED:  
RECORDED: MAY 9, 1956 IN BOOK 3503 PAGE 563, OF OFFICIAL RECORDS  
AFFECTS: THE SOUTHWESTERLY 5 FEET OF SAID LANDS (AFFECTS PLOTTABLE AS SHOWN)

10 AN EASEMENT FOR PUBLIC UTILITIES AND INCIDENTAL PURPOSES, AS GRANTED TO THE PACIFIC TELEPHONE AND TELEGRAPH COMPANY, A CORPORATION, IN A DEED:  
RECORDED: JUNE 6, 1956, IN BOOK 3596 PAGE 289, OF OFFICIAL RECORDS  
AFFECTS: THE SOUTHELY 5 FEET OF SAID LANDS. (AFFECTS, PLOTTABLE AS SHOWN) Vacated 8/31/16

11 AND 12 NOT A SURVEY MATTER/ NOT AN EASEMENT

THIS DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECTION ON: 08/18/2014

  
W. WAYNE WHATLEY, LS 8845  
EXPIRES: 12/31/2015



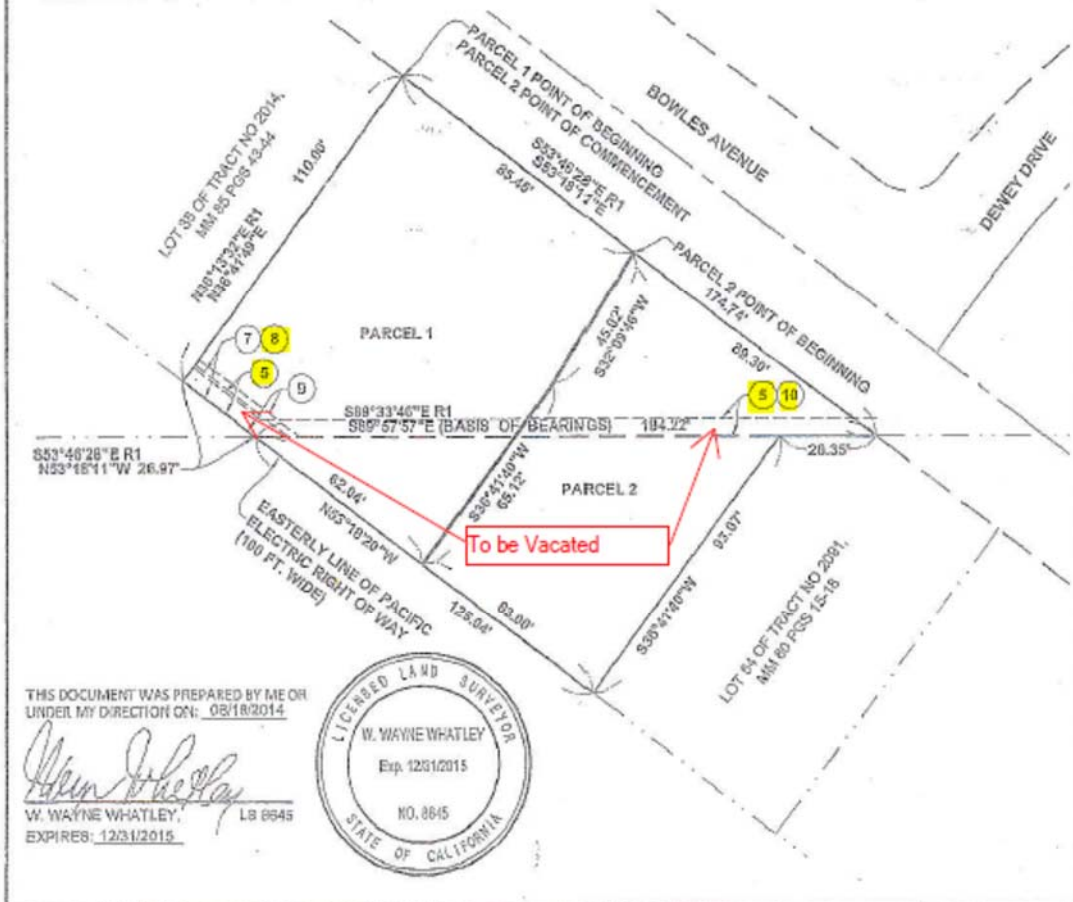
SHEET 2 OF 3

OWNERS OF RECORD	EXISTING PARCEL A.P. NO.	PROPOSED PARCEL NO.
KHOUNG VO, A MARRIED MAN	132-232-12	PARCEL 1
	132-232-12.01	PARCEL 2

### PARCEL INFORMATION

- |                              |                              |
|------------------------------|------------------------------|
| <u>PARCEL 1 (UNADJUSTED)</u> | <u>PARCEL 2 (UNADJUSTED)</u> |
| 11,094 SQ. FT.               | 5,618 SQ. FT.                |
| 0.255 ACRES                  | 0.134 ACRES                  |
| <u>PARCEL 1 (ADJUSTED)</u>   | <u>PARCEL 2 (ADJUSTED)</u>   |
| 9,711 SQ. FT.                | 7,202 SQ. FT.                |
| 0.223 ACRES                  | 0.165 ACRES                  |

THE BASIS OF BEARINGS BEING THE MOST NORTHERLY TRACT  
BOUNDARY OF TRACT NO. 2091 WITH A BEARING OF N89°57'57"W AS  
RECORDED IN BK 80, PGS 15-18 OF N.M.



CITY OF GARDEN GROVE

AFFIDAVIT OF POSTING RESOLUTION NO. 9515-18

Pursuant to the procedures established in Chapter 3, Section 8320, et. Seq., of the Streets and Highways Code, a Notice of Vacation must be posted conspicuously along the easements proposed to be vacated no later than June 25, 2018, at least two week before the date of the Public Hearing, July 10, 2018. The notice shall be posted not more than 300 feet apart, but at least three notices shall be posted. The notices shall state the day, hour and place of the Public Hearing, and shall refer to the adoption of the Resolution of Intention, Resolution No. 9515-18, and shall describe the easements or shall include a map or plan showing the location of the easements proposed to be vacated.

I, VINCENT DE LA ROSA, posted 3 notices on 6/18/2018. The notices were posted ALONG FRONTAGE OF PROPERTY ON BOWLES AVENUE.

  
\_\_\_\_\_  
Signature

5/19/18  
\_\_\_\_\_  
Date

GARDEN GROVE CITY COUNCIL  
RESOLUTION NO. 9525-18

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE  
DECLARING INTENT TO PROCEED WITH GENERAL VACATION OF MAJOR PUBLIC  
UTILITY EASEMENTS OVER TRUSS PARCELS 1 AND 2 OF LOT 106  
ADJUSTMENT 007-004

The City Council of the City of Garden Grove does hereby intend as follows:

**SECTION 1.** Pursuant to Division 5, Part 3, Chapter 1 of the California Streets and Highways Code, commencing with Section 4500, the City Council of the City of Garden Grove hereby declares its intention to proceed general public utility easement vacations of those certain public use easements over portions of Lots 1 and 2 of Lot 106 Adjustment 007-004, commonly known as 11,575 Stanford Avenue, as depicted and depicted on the attached Exhibit B, which is incorporated herein by this reference.

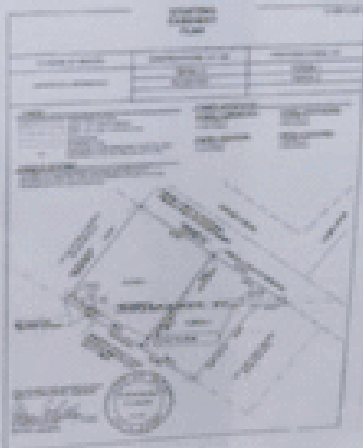
**SECTION 2.** The City Clerk is directed to maintain on file in the office of the City Clerk maps or plans showing the particulars of the proposed general public utility easement vacations of those certain public use easements over Lots 1 and 2 of Lot 106 Adjustment 007-004, and reference is hereby made to such maps and plans for particulars as to said proposed vacations.

**SECTION 3.** The City Council shall convene for July 25, 2018, at 10:00 a.m., or as soon thereafter as the matter may be heard in the Community Hearing Center, 11000 Stanford Avenue, Garden Grove, California, at the time and place for hearing of persons interested in or objecting to the proposed vacation, which time is not less than fifteen (15) days from the passage of this Resolution.

**SECTION 4.** The City Clerk is directed to cause a copy of this Resolution to be published in a widely circulated, published and approved in Garden Grove for at least ten successive weeks prior to the time set herein for the Public Hearing.

**SECTION 5.** The Director of Public Works is directed to post, or cause to be posted, notices of vacation conspicuously along the easements proposed to be vacated at least ten days before the date of the Public Hearing. The notice shall be posted not more than 600 feet apart, 500 feet from corners where the vacation. The notice shall state the day, hour and place of the Public Hearing, and shall refer to the adoption of this Resolution of intention, and shall describe the easements to be vacated and include a map or plan showing the location of the easements proposed to be vacated.

Garden Grove City Council  
Resolution No. 9525-18  
Page 4







# EXISTING EASEMENT PLAN

SHEET 2 OF 3

OWNERS OF RECORD	EXISTING PARCEL A.P. NO.	PROPOSED PARCEL NO.
KHOUNG VO, A MARRIED MAN	132-232-12	PARCEL 1
	132-232-12.01	PARCEL 2

## LEGEND

	PROPOSED LOT LINE
	EXIST. LOT LINE TO REMAIN
	EXIST. LOT LINE TO BE REMOVED
	CENTERLINE
	EASEMENT LINE
R1	INDICATES A DIMENSION PER TRACT NO. 3037 RECORDED IN BK. 88, PGS. 38 & 39 OF M.M.

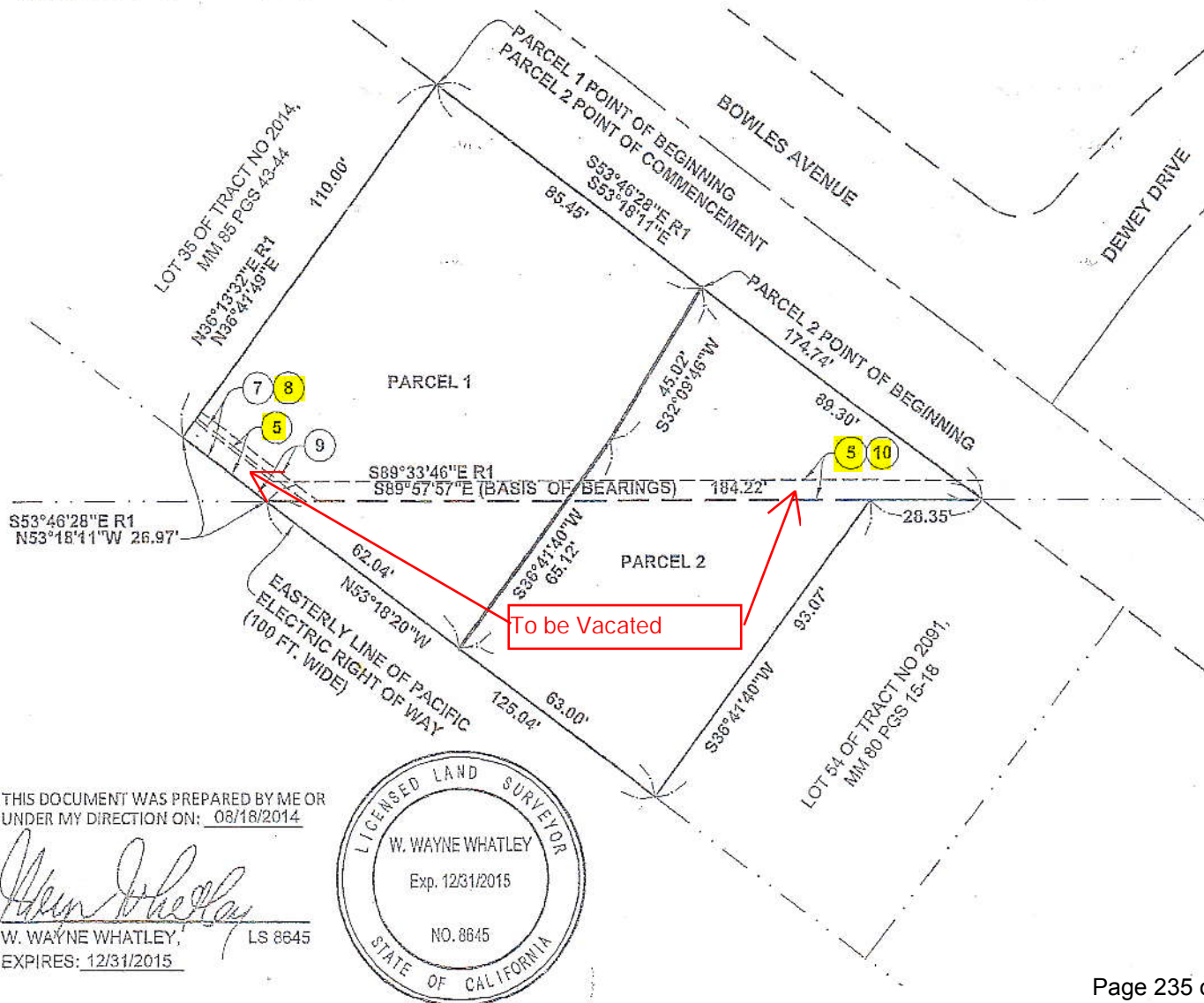
## PARCEL INFORMATION

<u>PARCEL 1 (UNADJUSTED)</u>
11,094 SQ. FT.
0.255 ACRES
<u>PARCEL 1 (ADJUSTED)</u>
9,711 SQ. FT.
0.223 ACRES

<u>PARCEL 2 (UNADJUSTED)</u>
5,819 SQ. FT.
0.134 ACRES
<u>PARCEL 2 (ADJUSTED)</u>
7,202 SQ. FT.
0.165 ACRES

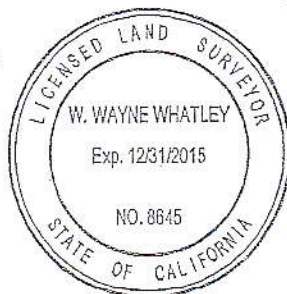
## BASIS OF BEARINGS

THE BASIS OF BEARINGS BEING THE MOST NORTHERLY TRACT  
BOUNDARY OF TRACT NO. 2091 WITH A BEARING OF N89°57'57"W AS  
RECORDED IN BK 80, PGS 15-18 OF M.M.



THIS DOCUMENT WAS PREPARED BY ME OR  
UNDER MY DIRECTION ON: 08/18/2014

*W. Wayne Whatley*  
W. WAYNE WHATLEY, LS 8645  
EXPIRES: 12/31/2015



**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	Lisa L. Kim
Dept.:	City Manager	Dept.:	Community and Economic Development
Subject:	Consideration of an appeal of Date: 7/10/2018 a Garden Grove Planning Commission action for a denial of Conditional Use Permit No. CUP-120-2018 for the Pho Hoa An Restaurant located at 14291 Euclid Street #D101, Garden Grove. ( <i>Action Item</i> )		

---

**OBJECTIVE**

To conduct a Public Hearing to consider the appeal of the Garden Grove Planning Commission's denial of Conditional Use Permit No. CUP-120-2018, regarding an existing restaurant, Pho Hoa An Restaurant, located at 14291 Euclid Street #D101, Garden Grove.

**BACKGROUND**

The site is improved with a multi-tenant retail shopping center called the Euclid Retail Center. The center includes retail stores, restaurants, medical, and office professional uses. The specific 1,885 square foot tenant space under application has been in operation as a restaurant since 1992, changing ownership several times during subsequent years. According to business license records, the current business owner, the applicant, Kimberly B. Le, has been operating the current restaurant, Pho Hoa An Restaurant, since 2014.

In June of 1999, the City of Garden Grove approved Conditional Use Permit No. CUP-455-99, which allowed the existing restaurant to operate with a new State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License.

In March of 2003, the City of Garden Grove approved Conditional Use Permit No. CUP-102-03, which allowed the existing restaurant, currently operating with a State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License, to have live entertainment in the form a solo performer, but with no audience participation, amplified sound system, stage, or dance floor allowed. At



the time of the approval of CUP-102-03, the restaurant had existing illegal improvements that included items such as a stage, music instruments, and an amplified sound system. A condition of approval required that all said improvements were to be removed within thirty (30) days from the date of the approval of CUP-102-03.

In late 2016, the applicant had submitted a preliminary inquiry to the City for a request for Conditional Use Permit (CUP) approval to allow an upgrade of the restaurant's existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License. Up to this point, the restaurant had developed a history of non-compliance with its Conditional Use Permit and the applicable conditions of approval, along with other legal violations such as customers smoking within the business. Shortly thereafter, the applicant met with the Police Department to discuss the CUP request. The Police Department outlined past and ongoing issues related to the restaurant including, but not limited to, illegal karaoke live entertainment, amplified music, and the use of an amplified sound system with associated equipment. It should be noted that recent calls for service relating to the restaurant, that were received by the Police Department, included, but were not limited to: disturbing the peace (loud audible music from outside the restaurant), a call relating to a fight, and a call relating to an assault with a deadly weapon.

Typically, if a restaurant has developed a history of non-compliance (e.g., repeated CUP violations) with its CUP and/or demonstrated an unwillingness to correct ongoing issues, the Police Department has not supported requests/applications where an applicant's request would intensify and/or expand an existing restaurant use (i.e., upgrading an ABC License to add hard liquor sales to beer and wine sales, increasing hours of operation to later hours, etc.). At its meeting, the Police Department advised the applicant that it could not support the applicant's request unless the applicant operated the restaurant in compliance with its Conditional Use Permit (CUP-102-03), demonstrated good operational behavior, and encouraged the business owner to return to the City and re-submit its request for reconsideration after demonstrating CUP compliance and good operational behavior for a period of at least one (1) year.

In October of 2017, the applicant submitted a follow-up preliminary inquiry to the City for a request for Conditional Use Permit (CUP) approval to allow an upgrade of the restaurant's existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License.

It should be noted that the application review process typically begins with the submittal of a preliminary review application package to Staff for review. Said package may include a request in writing, a business proposal, a menu (if applicable), and proposed plans. During the preliminary review process, Staff will work with the applicant to address any issues with the proposal and/or the proposed plans, to ensure the project complies with the requirements of the Municipal Code and is supportable by Staff. Before Staff had completed its preliminary review of the applicant's request (to determine whether or not the City would support the request), the applicant decided to forgo the preliminary review process and submitted a land

use entitlement application for its CUP request on December 5, 2017.

Following receipt of the CUP application, Staff continued its preliminary review. During said review, it was noted by the Police Department that on several occasions, including a business check that occurred on December 23, 2017, police officers had observed CUP violations in the subject restaurant, Pho Hoa An Restaurant. Observations included but were not limited to: loud audible music from outside the restaurant, customers smoking within the establishment, karaoke live entertainment, amplified music, and an amplified sound system with associated equipment. The applicant had not been operating in compliance with its current Conditional Use Permit (CUP-102-03), which includes, but is not limited to, the following conditions of approval:

*P. Live entertainment shall be limited to a solo paid professional performer. No audience participation and amplified sound system allowed.*

*Q. There shall be no dancing, karaoke or disc-jockey entertainment or sport bar permitted at any time.*

*R. Noise generated from the establishment shall not be audible outside the establishment.*

*S. There shall be no stage area or dance floor allowed at any time.*

*T. The existing stage with music instruments and amplified sound system and a big-screened television shall be removed within thirty (30) days from the date of Conditional Use Permit approval.*

Staff scheduled the applicant's item for the February 1, 2018, Planning Commission meeting. On January 9, 2018, the applicant submitted a request to withdraw their CUP item from the February 1, 2018 Planning Commission meeting agenda, in order to modify their proposal by adding a request to allow karaoke live entertainment including other associated components (i.e., amplified sound, stage, and karaoke equipment), in addition to its current request to upgrade its ABC Type "41" License to an ABC Type "47" License.

On February 5, 2018, the applicant had met with Staff, which included the Police Department, to discuss their modified CUP request (to add karaoke live entertainment). The Police Department noted there had been no apparent recent efforts made by the applicant to bring its business into compliance with its current Conditional Use Permit (CUP-102-03), to remove all illegal improvements within the establishment, and to demonstrate good operational behavior since the last meeting between the applicant and the Police Department, which took place approximately one (1) year ago. Accordingly, the Police Department noted it would not support the modified CUP request until the business owner had removed all illegal improvements within the establishment, and successfully demonstrated good operational behavior in compliance with its current CUP, for a period of at least one (1) year. After such time, the Police Department again encouraged the business owner to return to the City and re-submit their request for reconsideration. The applicant stated she would remove all existing illegal improvements and operate in compliance with her current

CUP.

On March 5, 2018, the applicant submitted a request to agendize her item, Conditional Use Permit No. CUP-120-2018, for the next available Planning Commission meeting, forgoing the Police Department's direction to operate in compliance with its current CUP for at least one (1) year before resubmitting her request.

The restaurant is located in a crime district that is 7% above the average crime count per district, and in an area of an over-concentration of Alcoholic Beverage Control on-sale licenses.

#### FINDING OF PUBLIC CONVENIENCE OR NECESSITY

A finding for public convenience or necessity would have to be made in order to approve an establishment that is requesting a new original Alcoholic Beverage Control license that is located within a district with a high crime rate and/or in an area with an over-concentration of ABC licenses. California Business and Professions Code Section 23816 prohibits the ABC from issuing new alcoholic licenses in areas of over-concentration. In addition, Business and Professions Code Section 23958 states:

The department further shall deny an application for a license if issuance of that license would tend to create a law enforcement problem, or if issuance would result in or add to an undue concentration of licenses, except as provided in Section 23958.4.

Business and Professions Code Section 23958.4 provides the following exception:

(b) Notwithstanding Section 23958, the department may issue a license as follows:

(2) With respect to any other license, if the local governing body of the area in which the applicant premises are located, or its designated subordinate officer or body, determines within 90 days of notification of a completed application that public convenience or necessity would be served by the issuance. The 90-day period shall commence upon receipt by the local governing body of (A) notification by the department of an application for licensure, or (B) a completed application according to local requirements, if any, whichever is later.

The ABC Census Reporting District No. 889.03 shows the subject site to be located in an over-concentration of Alcoholic Beverage Control on-sale licenses; therefore the City is required to make a finding of public convenience or necessity to approve the ABC request. However, Staff did not believe a finding of public convenience or necessity should be made. Staff believed that the proposal to intensify the existing restaurant use, by upgrading the ABC Type "41" (Beer and wine) License to an ABC Type "47" (Beer, wine, and hard liquor) License and to add karaoke live entertainment, at this time would potentially adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, as the applicant has not successfully demonstrated a continuous display of compliance with

its current Conditional Use Permit.

Furthermore, Business and Professions Code Section 23958 states that an application for an ABC license shall be denied if issuance of the license would tend to create a law enforcement problem. Staff believed that the applicant's request would intensify the business operations through the upgrade of the current ABC Type "41" License to an ABC Type "47" License, and the addition of karaoke live entertainment, stage, amplified sound, and associated karaoke equipment. Based on previous observations made by the Police Department, where the applicant had not shown the ability to operate in compliance with its current Conditional Use Permit, Staff further believed that applicant's request would potentially put further strain on Police Department resources and increase the calls for service in an area that is above the average crime count for the district.

On April 19, 2018, the Planning Commission held a public hearing to consider Conditional Use Permit No. CUP-120-2018. Six (6) members of the public, which included the applicant and the applicant's representative, came forward to speak in favor of the project. The Planning Commission expressed concerns with the restaurant operators' history of prior issues and Conditional Use Permit (CUP) violations, and also urged the applicant to follow the Police Department's direction to demonstrate good operational behavior in compliance with the current CUP, for a period of at least one (1) year, after such time returning to the City and re-submitting the request for reconsideration. The Community and Economic Development Department and the Police Department had reviewed the request and did not support the proposal. City Staff had included a proposed Resolution of Denial for the Planning Commission's consideration. The documentation submitted by the applicant in support of its request had also been included for the Planning Commission's consideration. It was noted to the Planning Commission that it was not bound by City Staff's recommendation and should make an independent decision based on the facts and evidence presented at the public hearing. By a vote of 5-0 (with 2 commissioners absent), a successful motion was made by the Planning Commission to adopt Resolution No. 5907-18 to deny CUP-120-2018.

## DISCUSSION

### Appeal of the Denial of Conditional Use Permit No. CUP-120-2018

On May 8, 2018, the Appellant filed an appeal of the Planning Commission's denial of CUP-120-2018. On the submitted appeal form, the Appellant provided the following comments in support of the appeal: (i) that the applicant has demonstrated compliance with most requirements of the Garden Grove Police Department; (ii) that the restaurant's current Conditional Use Permit is outdated; and (iii) that the applicant's restaurant is the only restaurant in the City that is actively trying to comply with the City's regulations.

On June 2, 2018, the Garden Grove Police Department conducted a business check at the subject restaurant, Pho Hoa An Restaurant. Officers discovered numerous Conditional Use Permit (CUP) violations in the restaurant, including but not limited to: karaoke live entertainment, amplified music, an amplified sound system with associated karaoke equipment, and a stage. It should be noted that although

restaurant customers were not observed to be smoking inside the business during the business check, officers noted a strong odor of cigarette smoke inside the business, including numerous cigarette butts dropped on the floor. Due to the observed CUP violations, the business owner, Kimberly B. Le, was issued an administrative citation of \$1,000 for violation of Garden Grove Municipal Code Section 1.22.010(a).

On June 15, 2018, the Garden Grove Police Department conducted a business check at the subject restaurant, Pho Hoa An Restaurant. Officers again observed numerous CUP violations in the restaurant, including but not limited to: karaoke live entertainment, amplified music, an amplified sound system with associated karaoke equipment, and loud music audible from outside of the business. Due to the lack of compliance with the restaurant's Conditional Use Permit, and continued ongoing problems, the police officers seized the speakers, laptop, and sound equipment that were utilized for the karaoke live entertainment, which were booked into Garden Grove Police Department as evidence. Due to the observed CUP violations, the business owner was again issued an administrative citation of \$1,000 for violation of Garden Grove Municipal Code Section 1.22.010(a).

Staff has reviewed the appeal request and recommends that the City Council uphold the Planning Commission's decision to deny CUP-120-2018. The basis for Staff's recommendation and the Planning Commission's denial of CUP-120-2018 are set forth in detail in the April 19, 2018, Planning Commission Staff Report (Attachment 1), and Planning Commission Resolution No. 5907-18 (Attachment 2).

#### FINANCIAL IMPACT

None.

#### RECOMMENDATION

It is recommended that the City Council conduct a Public Hearing and:

- Adopt the attached Resolution denying the appeal submitted by the Appellant, and uphold the Planning Commission's decision to deny Conditional Use Permit No. CUP-120-2018; or
- Provide further direction to Staff.

By: Chris Chung, Associate Planner

#### ATTACHMENTS:

Description	Upload Date	Type	File Name
Planning Commission Staff Report dated April 19, 2018	6/18/2018	Backup Material	Planning_Commission_Staff_Report_dated_April_19__2018.pdf

Planning Commission Resolution No. 5907-18	6/18/2018	Backup Material	Planning_Commission_Resolution_No._5907-18.docx
Planning Commission Minute Excerpt of April 19, 2018	6/18/2018	Backup Material	Planning_Commission_Minute_Excerpt_of_April_19__2018.doc
CC Draft Resolution of Denial	7/5/2018	Resolution	7-10-18_CC_CUP-120-2018_CCDraftResoDenial.docx
Appellant's Appeal Form	6/18/2018	Resolution	Appellant_s_Appeal_Form.pdf
Appellant's modified Appeal	6/29/2018	Backup Material	7-10-18_Applicant_Request_to_Modify_Appeal_6-25-18.pdf

# COMMUNITY AND ECONOMIC DEVELOPMENT DEPARTMENT PLANNING STAFF REPORT

<b>AGENDA ITEM NO.:</b> <b>C.1.</b>	<b>SITE LOCATION:</b> West side of Euclid Street, south of Forbes Avenue, at 14291 Euclid St. #D101
<b>HEARING DATE:</b> April 19, 2018	<b>GENERAL PLAN:</b> Industrial/Commercial Mixed Use
<b>CASE NO.:</b> Conditional Use Permit No. CUP-120-2018	<b>ZONE:</b> PUD-104-81/86 REV. 90 (Planned Unit Development)
<b>APPLICANT:</b> Quan Hoa An LLC c/o Kimberly B. Le	<b>CEQA DETERMINATION:</b> Exempt
<b>PROPERTY OWNER:</b> Euclid Real Estate Development (Attn: Doreen Louise Galchutt)	<b>APN:</b> 099-183-03

## **REQUEST:**

A request for Conditional Use Permit (CUP) approval to upgrade an existing State Alcoholic Beverage Control (ABC) Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to allow live entertainment, in the form of karaoke, along with associated components (i.e., amplified sound, stage, and karaoke equipment), for an existing 1,885 square foot restaurant, Pho Hoa An Restaurant, located at 14291 Euclid Street #D101, which is currently operating under Conditional Use Permit No. CUP-102-03.

## **BACKGROUND:**

The site is improved with a multi-tenant retail shopping center called the Euclid Retail Center. The center includes retail stores, restaurants, medical, and office professional uses. The specific 1,885 square foot tenant space under application is located near the center of the development. The subject tenant space has been in operation as a restaurant since 1992, changing ownership several times during subsequent years. According to business license records, the current business owner, the applicant, Kimberly B. Le, has been operating the current restaurant, Pho Hoa An Restaurant, since 2014.

The property is located in the PUD-104-81/86 REV. 90 (Planned Unit Development) zone and has a General Plan Land Use Designation of Industrial/Commercial Mixed Use. The shopping center is adjacent to PUD-104-81/86 REV. 90 zoned properties to the north, west, south, and single-family residentially developed properties located in the City of Santa Ana, across Euclid Street, to the east.

In June of 1999, the City of Garden Grove approved Conditional Use Permit No. CUP-455-99, which allowed the existing restaurant to operate with a new State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License.

In March of 2003, the City of Garden Grove approved Conditional Use Permit No. CUP-102-03, which allowed the existing restaurant, currently operating with a State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License, to have live entertainment in the form a solo performer, but with no audience participation, amplified sound system, stage, or dance floor allowed. At the time of the approval of CUP-102-03, the restaurant had existing illegal improvements that included items such as a stage, music instruments, and an amplified sound system. A condition of approval required that all said improvements were to be removed within thirty (30) days from the date of the approval of CUP-102-03.

In late 2016, the applicant had submitted a preliminary inquiry to the City for a request for Conditional Use Permit (CUP) approval to allow an upgrade of the restaurant's existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License. Up to this point, the restaurant had developed a history of non-compliance with its Conditional Use Permit and the applicable conditions of approval, along with other legal violations such as customers smoking within the business. Shortly thereafter, the applicant met with the Police Department to discuss the CUP request. The Police Department outlined past and ongoing issues related to the restaurant including, but not limited to, illegal karaoke live entertainment, amplified music, and the use of an amplified sound system with associated equipment. It should be noted that recent calls for service relating to the restaurant, that were received by the Police Department, included, but were not limited to: disturbing the peace (loud audible music from outside the restaurant), a call relating to a fight, and a call relating to an assault with a deadly weapon.

Typically, if a restaurant has developed a history of non-compliance (e.g., repeated CUP violations) with its CUP and/or demonstrated an unwillingness to correct on-going issues, the Police Department has not supported requests/applications where an applicant's request would intensify and/or expand an existing restaurant use (i.e., upgrading an ABC License to add hard liquor sales to beer and wine sales, increasing hours of operation to later hours, etc.). At its meeting, the Police Department advised the applicant that it could not support the applicant's request unless the applicant operated the restaurant in compliance with its Conditional Use Permit (CUP-102-03), demonstrated good operational behavior, and encouraged the business owner to return to the City and re-submit its request for reconsideration after demonstrating CUP compliance and good operational behavior for a period of at least one (1) year.



**DISCUSSION:**

In October of 2017, the applicant submitted a follow-up preliminary inquiry to the City for a request for Conditional Use Permit (CUP) approval to allow an upgrade of the restaurant's existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License.

It should be noted that the application review process typically begins with the submittal of a preliminary review application package to Staff for review. Said package may include a request in writing, a business proposal, a menu (if applicable), and proposed plans. During the preliminary review process, Staff will work with the applicant to address any issues with the proposal and/or the proposed plans, to ensure the project complies with the requirements of the Municipal Code and is supportable by Staff. Before Staff had completed its preliminary review of the applicant's request (to determine whether or not the City would support the request), the applicant decided to forgo the preliminary review process and submitted a land use entitlement application for its CUP request on December 5, 2017.

Following receipt of the CUP application, Staff continued its preliminary review. During said review, it was noted by the Police Department that on several occasions, including a business check that occurred on December 23, 2017, police officers had observed CUP violations in the subject restaurant, Pho Hoa An Restaurant. Observations included but were not limited to: loud audible music from outside the restaurant, customers smoking within the establishment, karaoke live entertainment, amplified music, and an amplified sound system with associated equipment. The applicant had not been operating in compliance with its current Conditional Use Permit (CUP-102-03), which includes, but is not limited to, the following conditions of approval:

- P. Live entertainment shall be limited to a solo paid professional performer. No audience participation and amplified sound system allowed.*
- Q. There shall be no dancing, karaoke or disc-jockey entertainment or sport bar permitted at any time.*
- R. Noise generated from the establishment shall not be audible outside the establishment.*
- S. There shall be no stage area or dance floor allowed at any time.*
- T. The existing stage with music instruments and amplified sound system and a big-screened television shall be removed within thirty (30) days from the date of Conditional Use Permit approval.*

Staff scheduled the applicant's item for the February 1, 2018 Planning Commission meeting. On January 9, 2018, the applicant submitted a request to withdraw their CUP item from the February 1, 2018 Planning Commission meeting agenda, in order to modify their proposal by adding a request to allow karaoke live entertainment

including other associated components (i.e., amplified sound, stage, and karaoke equipment), in addition to its current request to upgrade its ABC Type "41" License to an ABC Type "47" License.

On February 5, 2018, the applicant had met with Staff, which included the Police Department, to discuss their modified CUP request (to add karaoke live entertainment). The Police Department noted there had been no apparent recent efforts made by the applicant to bring its business into compliance with its current Conditional Use Permit (CUP-102-03), to remove all illegal improvements within the establishment, and to demonstrate good operational behavior since the last meeting between the applicant and the Police Department, which took place approximately one (1) year ago. Accordingly, the Police Department noted it would not support the modified CUP request until the business owner had removed all illegal improvements within the establishment, and successfully demonstrated good operational behavior in compliance with its current CUP, for a period of at least one (1) year. After such time, the Police Department again encouraged the business owner to return to the City and re-submit their request for reconsideration. The applicant stated she would remove all existing illegal improvements and operate in compliance with her current CUP.

On March 5, 2018, the applicant submitted a request to agendize her item, Conditional Use Permit No. CUP-120-2018, for the next available Planning Commission meeting, forgoing the Police Department's direction to operate in compliance with its current CUP for at least one (1) year before resubmitting her request.

The restaurant is located in a crime district that is 7% above the average crime count per district, and in an area of an over-concentration of Alcoholic Beverage Control on-sale licenses. A summary of the district, can be found in Resolution No. 5907-18 for Conditional Use Permit No. CUP-120-2018.

#### FINDING OF PUBLIC CONVENIENCE OR NECESSITY

A finding for public convenience or necessity would have to be made in order to approve an establishment that is requesting a new original Alcoholic Beverage Control license that is located within a district with a high crime rate and/or in an area with an over-concentration of ABC licenses. California Business and Professions Code Section 23817.5 prohibits the ABC from issuing new alcoholic licenses in areas of over-concentration. Business and Professions Code Section 23958 states:

The department further shall deny an application for a license if issuance of that license would tend to create a law enforcement problem, or if issuance would result in or add to an undue concentration of licenses, except as provided in Section 23958.4.

Business and Professions Code Section 23958.4 provides the following exception:

(b) Notwithstanding Section 23958, the department may issue a license as follows:

(2) With respect to any other license, if the local governing body of the area in which the applicant premises are located, or its designated subordinate officer or body, determines within 90 days of notification of a completed application that public convenience or necessity would be served by the issuance. The 90-day period shall commence upon receipt by the local governing body of (A) notification by the department of an application for licensure, or (B) a completed application according to local requirements, if any, whichever is later.

The ABC Census Reporting District No. 889.03 shows the subject site to be located in an over-concentration of Alcoholic Beverage Control on-sale licenses; therefore the City is required to make a finding of public convenience or necessity to approve the ABC request. However, Staff does not believe a finding of public convenience or necessity should be made. Staff believes that the proposal to intensify the existing restaurant use, by upgrading the ABC Type "41" (Beer and wine) License to an ABC Type "47" (Beer, wine, and hard liquor) License and to add karaoke live entertainment, at this time will potentially adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, as the applicant has not successfully demonstrated a continuous display of compliance with its current Conditional Use Permit.

Furthermore, Business and Professions Code Section 23958 states that an application for an ABC license shall be denied if issuance of the license would tend to create a law enforcement problem. Staff believes that the applicant's request would intensify the business operations through the upgrade of the current ABC Type "41" License to an ABC Type "47" License, and the addition of karaoke live entertainment, stage, amplified sound, and associated karaoke equipment. Based on previous observations made by the Police Department, where the applicant had not shown the ability to operate in compliance with its current Conditional Use Permit, Staff further believes that applicant's request will potentially put further strain on Police Department resources and increase the calls for service in an area that is above the average crime count for the district.

The Community and Economic Development Department and the Police Department have reviewed the request and do not support the proposal. Therefore, City Staff has included a proposed Resolution of Denial for the Planning Commission's consideration. The documentation submitted by the applicant in support of its request has also been included for the Planning Commission's consideration.

The Planning Commission is not bound by City Staff's recommendation and should make an independent decision based on the facts and evidence presented at the public hearing. In the event the Planning Commission believes the applicant's proposal should be approved, in whole or in part, City Staff recommends that the Planning Commission continue the public hearing to a date certain to allow for consideration of the necessary findings and conditions of approval.

**RECOMMENDATION:**

Staff recommends that the Planning Commission take the following action:

1. Adopt the attached Resolution denying Conditional Use Permit No. CUP-120-2018.



Lee Marino  
Planning Services Manager



By: Chris Chung  
Urban Planner

Attachment 1: Applicant's Request in Writing

**Proposal:**

The Pho Hoa An Restaurant aka Quan Hoa An, LLC (the applicant) is seeking a **Modification of Conditional Use Permit No. CUP 102-03** to be allowed to operate with an **ABC -type 47** On-Sale General for Bond Fide Public Eating Place with all other conditions to remain the same. Currently the applicant is operating with an ABC type 41 On-Sale Beer and Wine for Bona Fide Public Eating Place.

**Background:**

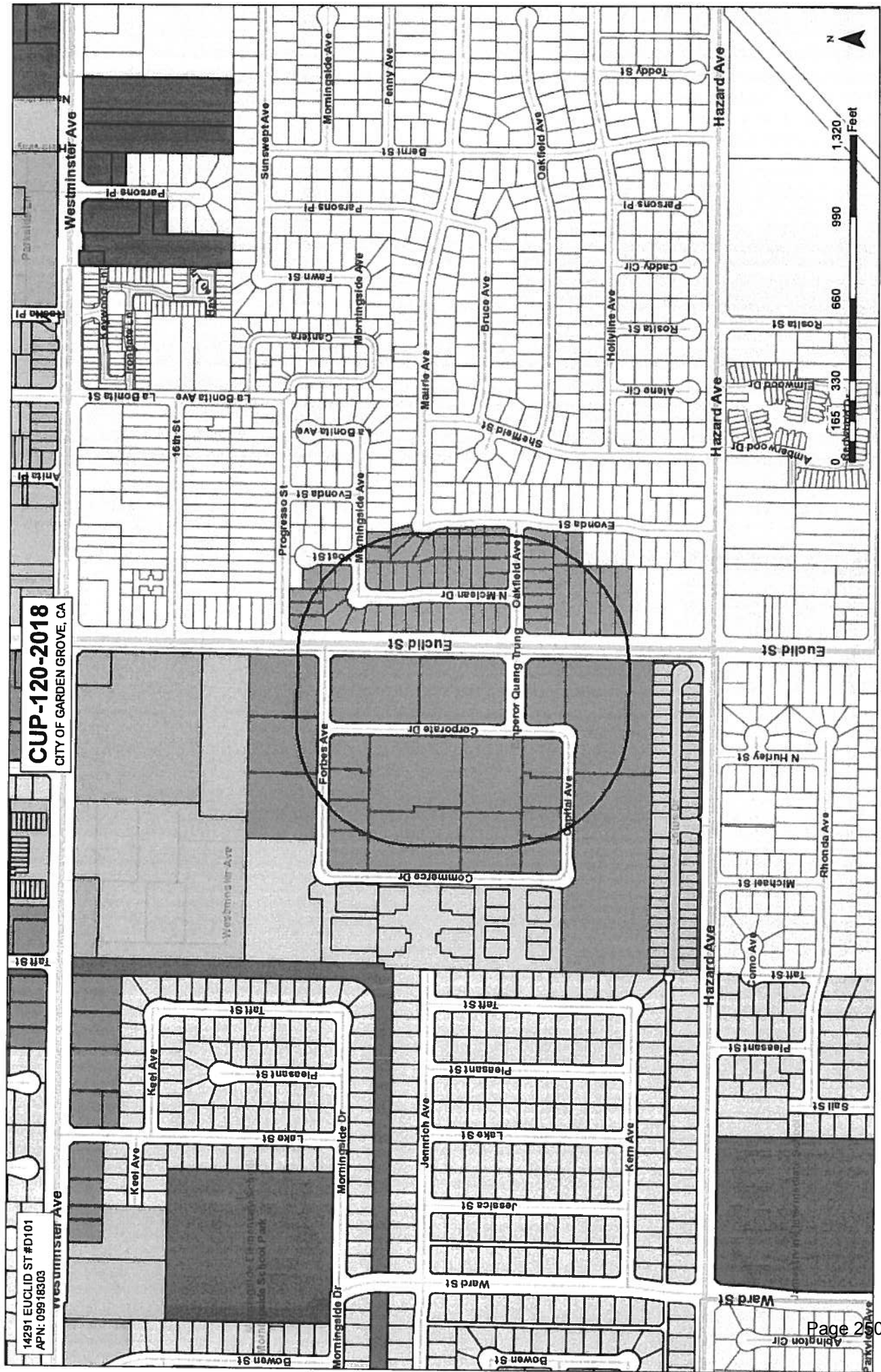
The applicant was chosen to receive the ABC type 47 around October 19, 2016 thru the ABC lottery. Thereafter, she contacted the Garden Grove Planning Dept. to begin the process of the CUP Modification and as she went through the Pre-application phase, Garden Grove Police Officer Pete Arellano contacted her to inform her that she should and must wait for an indefinite amount of time because of previous police calls for service (smoking violations) in the Restaurant's Shopping Center. The applicant explained to Officer Arellano that she had just taken over the restaurant for about a year and a half and that the violations occurred prior to her management. He was understanding but suggested that she waits a few months. Although many of the violations occurred throughout the shopping center and not just specific to the applicant's restaurant, she complied. Over the next several months, a series of face to face and telephonic conferences were made between the applicant and Officer Arellano to ensure that the restaurant was always in compliance and good standing. Around June 2017, another Officer who has just taken Officer Arellano position informed the applicant that she should proceed with the CUP application with the planning department. The GGPD had no input. The applicant is ready to proceed exactly one year from initial contact with the GGPD and operating with a clean record.

The Pho Hoa An Restaurant currently occupies an 1885 square foot restaurant space located on the West side of Euclid Street, South of Forbes Avenue, at 14291 Euclid Street, Parcel No. 099-183-03. It operates under an ABC type-41 and is licensed to have live entertainment in the form solo performers. The current hours of operations are 10:00 am to 12:00 midnight 7 days a week. The minimum age for patrons is 21 years old and identification is always requested if necessary. At any given time, there are always at least 6 employees and up to 10 during peak hours. The restaurant has a full on-site service kitchen that is open at all hours of operation (menu) enclosed. There is no bar or cocktail lounge on the premise. The restaurant is equipped with an interior security camera system. Currently there are no security guards provided and it had never been a need because most diners and patrons are older adults.

The approval of this request will benefit both the applicant and community by allowing the natural progression of a business to expand its goods and services and contributing to the growth of the Garden Grove business environment.

**CUP-120-2018**  
CITY OF GARDEN GROVE, CA

14291 EUCLID ST #D101  
APN: 09918303



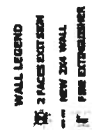
**14291 EUCLID STREET, SUITE D - 101  
GARDEN GROVE, CA 92843**



## CORPORATE DRIVE



Age = 3 years



## FLOOR PLAN

**1. SUBJECT TERMS**

**CUP-120-2018**

**A-1**

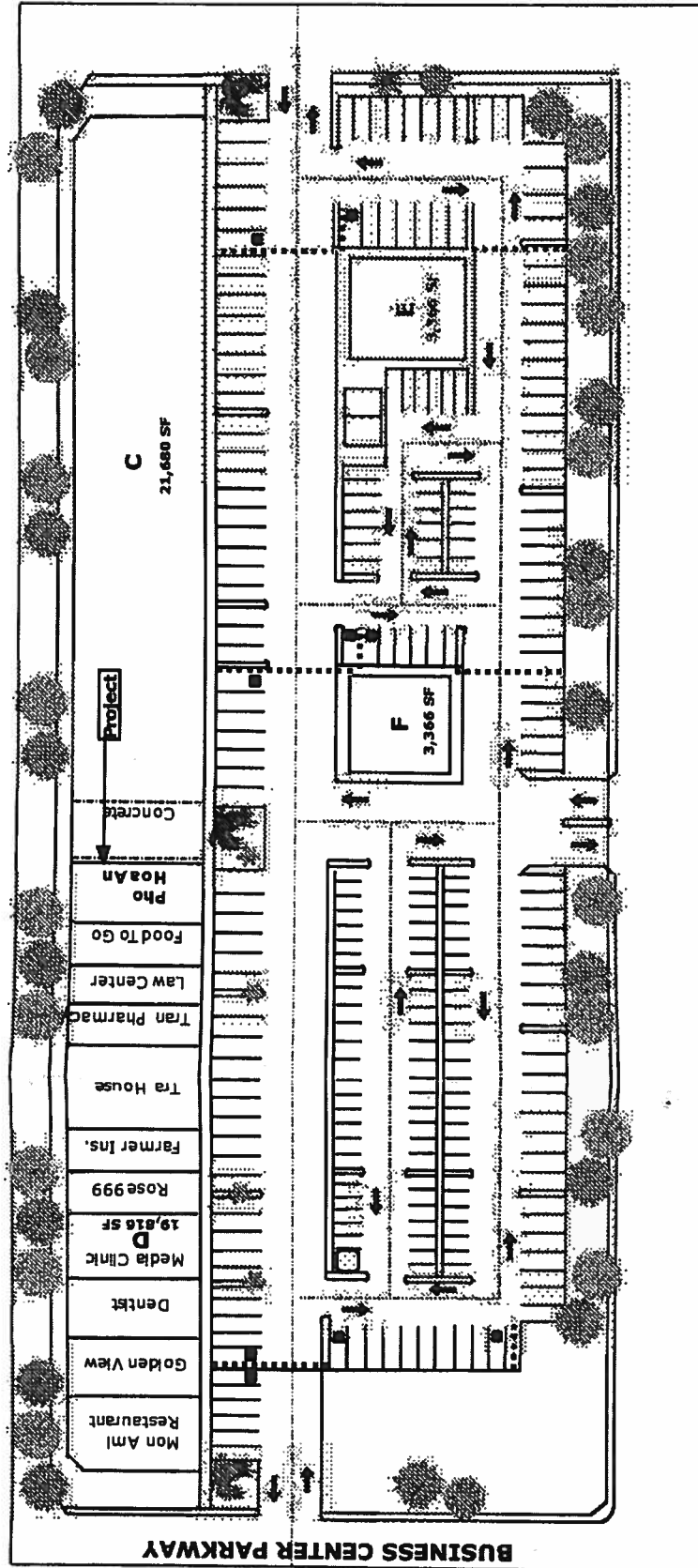
Project: Hoa An Restaurant & Lounge  
 Tenant Improvement For  
 Address: 14291 Euclid Ave.  
 Garden Grove, CA 92843

**GreenBuild Construction**  
12652 Groveview Street  
Garden Grove, CA 92640  
Tel: 714-720-6420  
CALL # R832466

VICINITY MAP

PROJECT DATA

CORPORATE DRIVE

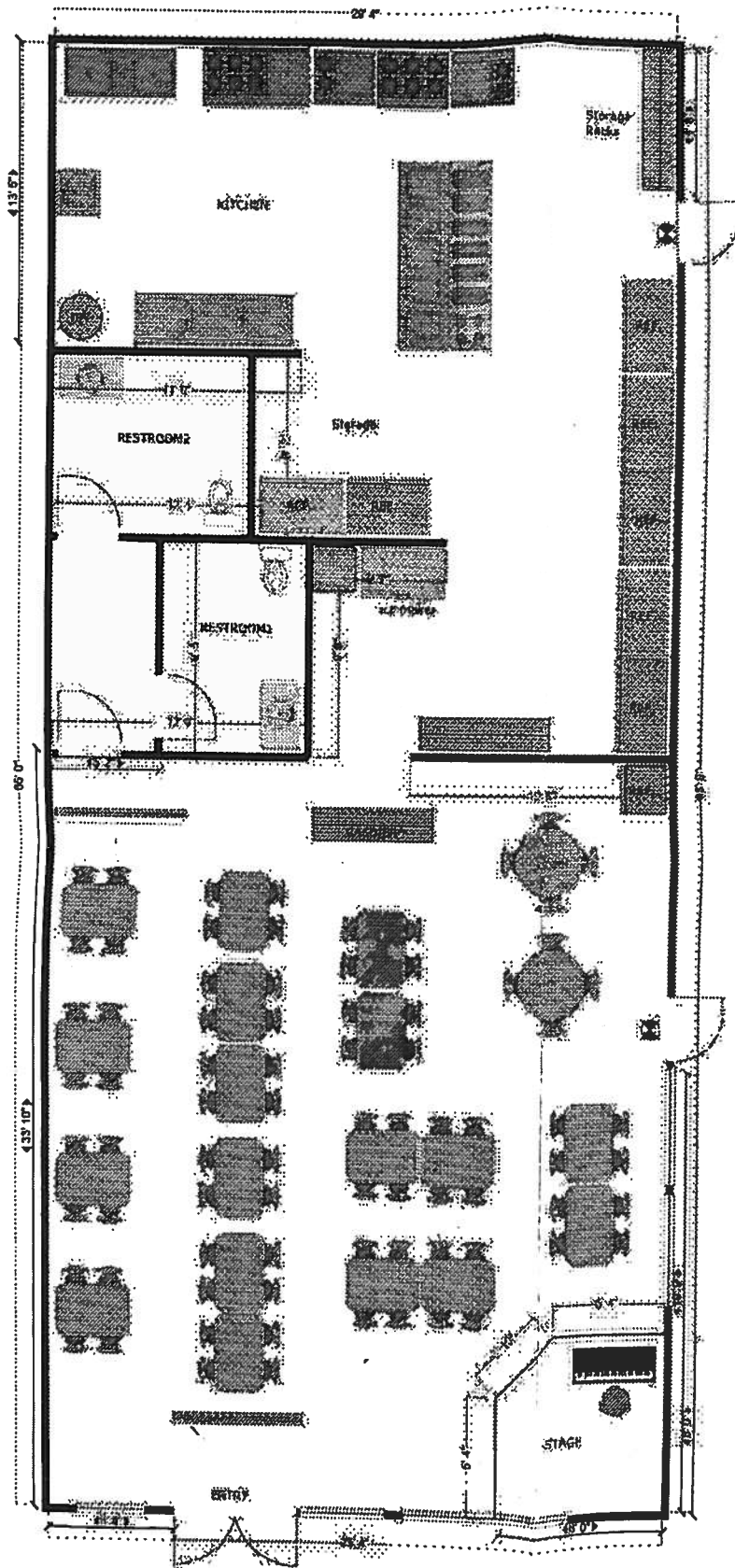


EUCLID STREET

SITE PLAN

SCALE: 1" = 50'





CUP-120-2018

SCALE: 1/4" = 1'

**GreenBuild Construction**  
12652 Groveview Street  
Garden Grove, CA 92840  
Tel: 714-720-6420  
CA Lic. # B 832466

Project:  
TENANT IMPROVEMENT FOR  
**Hoa An Restaurant & Lounge**  
Address:  
14291 Euclid Ave.  
Garden Grove, CA 92843

Design by:
Drawn by: Jason Le
Scale:
Date:
Job Number:
Contractor:

Sheet:  
**A-1**

RESOLUTION NO. 5907-18

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF GARDEN GROVE  
DENYING CONDITIONAL USE PERMIT NO. CUP-120-2018.

BE IT RESOLVED that the Planning Commission of the City of Garden Grove does hereby deny the request for approval of Conditional Use Permit No. CUP-120-2018 for a property located at the west side of Euclid Street, south of Forbes Avenue, at 14291 Euclid St. #D101, Assessor's Parcel No. 099-183-03 (the "Property"), and hereby determines that public convenience and necessity would not be served by the issuance of a new Alcoholic Beverage Control License Type "47" (On-Sale, General, Public Eating Place) License for the existing establishment.

BE IT FURTHER RESOLVED in the matter of Conditional Use Permit No. CUP-120-2018, the Planning Commission of the City of Garden Grove does hereby report as follows:

1. The subject case was initiated by Quan Hoa An LLC c/o Kimberly B. Le ("Applicant").
2. The Applicant is requesting Conditional Use Permit (CUP) approval to upgrade an existing State Alcoholic Beverage Control (ABC) Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to allow live entertainment, in the form of karaoke, along with associated components (i.e., amplified sound, stage, and karaoke equipment), for an existing 1,885 square foot restaurant, Pho Hoa An Restaurant, located at 14291 Euclid Street #D101, which is currently operating under Conditional Use Permit No. CUP-102-03.
3. Because the application is denied, the project is exempt from the requirements of the California Environmental Quality Act ("CEQA") pursuant to CEQA Guidelines Section 15270(a).
4. The property has a General Plan Land Use designation of Industrial/Commercial Mixed Use, and is zoned PUD-104-81/86 REV. 90 (Planned Unit Development).
5. Existing land use, zoning, and General Plan designation of property within the vicinity of the subject property have been reviewed.
6. Report submitted by City Staff was reviewed.
7. Pursuant to a legal notice, a public hearing was held on April 19, 2018, and all interested persons were given an opportunity to be heard.
8. The Planning Commission gave due and careful consideration to the matter during its meeting of April 19, 2018 and considered all information presented; and

BE IT FURTHER RESOLVED, FOUND AND DETERMINED that the facts and reasons supporting the conclusion of the Planning Commission, as required under Municipal Code Section 9.32.030, are as follows:

FACTS:

The site is improved with a multi-tenant retail shopping center called the Euclid Retail Center. The center includes retail stores, restaurants, medical, and office professional uses. The specific 1,885 square foot tenant space under application is located near the center of the development. The subject tenant space has been in operation as a restaurant since 1992, changing ownership several times during subsequent years. According to business license records, the current business owner, the applicant, Kimberly B. Le, been operating the current restaurant, Pho Hoa An Restaurant, since 2014.

The property is located in the PUD-104-81/86 REV. 90 (Planned Unit Development) zone and has a General Plan Land Use Designation of Industrial/Commercial Mixed Use. The shopping center is adjacent to PUD-104-81/86 REV. 90 zoned properties to the north, west, south, and single-family residentially developed properties located in the City of Santa Ana, across Euclid Street, to the east.

In June of 1999, the City of Garden Grove approved Conditional Use Permit No. CUP-455-99, which allowed the existing restaurant to operate with a new State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License.

In March of 2003, the City of Garden Grove approved Conditional Use Permit No. CUP-102-03, which allowed the existing restaurant, currently operating with a State Alcoholic Beverage Control Type "41" (On-Sale, Beer and Wine, Public Premises) License, to have live entertainment in the form a solo performer, but with no audience participation, amplified sound system, stage, or dance floor allowed. At the time of the approval of CUP-102-03, the restaurant had existing illegal improvements that included items such as a stage, music instruments and an amplified sound system. A condition of approval required that all said improvements were to be removed within thirty (30) days from the date of the approval of CUP-102-03.

According to the Garden Grove Police Department, there is a history of Municipal Code violations and noncompliance with CUP conditions of approval by the operator(s) of the subject restaurant, and a relatively high volume of calls for service have been generated by or associated with the subject restaurant since 2015. For example, in 2015, the Garden Grove Police Department responded to calls for service associated with the subject restaurant related to a fight, a suspect reported to be armed and dangerous, and an assault with a deadly weapon. From 2016 to present, the Garden Grove Police Department has responded to calls for services associated with the subject restaurant related to, but not limited to, noise, disturbing the peace, and an assault.

In April 2016, the Police Department issued an administrative citation to the business operator for failing to comply with the conditions of approval for CUP-102-03. Issues noted with respect to this incident included smoking on the premises, a karaoke performer on an unpermitted stage, and use of an amplified sound system.

In June 2016, officers from the Garden Grove Police Department performed a business check on the subject establishment, noted patrons illegally smoking on the premises, and cited them.

In late 2016, a Garden Grove Police Department officer met with the applicant, pointed out the past problems and violations that had occurred at the business, and requested that the applicant operate the business in compliance with the conditions of approval for the existing CUP.

Subsequent to the 2016 meeting, Garden Grove Police Department officers continued to observe CUP violations at the subject restaurant. For example, during a business check on December 23, 2017, police officers observed CUP violations in the subject restaurant related to loud audible music from outside the restaurant, customers smoking within the establishment, karaoke live entertainment, amplified music, and an amplified sound system with associated equipment.

According to the Police Department, the applicant has not been operating in compliance with its current Conditional Use Permit (CUP-102-03), which includes, but is not limited to, the following conditions of approval:

- P. Live entertainment shall be limited to a solo paid professional performer. No audience participation and amplified sound system allowed.*
- Q. There shall be no dancing, karaoke or disc-jockey entertainment or sport bar permitted at any time.*
- R. Noise generated from the establishment shall not be audible outside the establishment.*
- S. There shall be no stage area or dance floor allowed at any time.*
- T. The existing stage with music instruments and amplified sound system and a big-screened television shall be removed within thirty (30) days from the date of Conditional Use Permit approval.*

In February 2018, the Police Department issued another administrative citation to the business operator after observing music from the establishment that was audible outside.

The restaurant is located in a crime district that is 7% above the Citywide average, and in an area with an over-concentration of Alcoholic Beverage Control Licenses. A summary of the district is as follows:

- The subject site is located in Crime Reporting District No. 117.
- The crime count for the District is 188.
- Average crime count per district in the City is 176.
- A District is considered high when it exceeds the Citywide average by 20%.
- The subject District has a crime count of 7% above the Citywide average; therefore it is not located within a high crime district.
- However, the subject Property is located in an area of over-concentration of Alcoholic Beverage Control Licenses. The subject site is located in Alcoholic Beverage Control (ABC) Census Report District No. 889.03, which allows for ten (10) on-sale licenses within the District. Currently, there are fourteen (14) on-sale licenses in the district.

The City of Garden Grove Community and Economic Development Department and Police Department have reviewed the request and do not support the proposal.

#### NO FINDING OF PUBLIC CONVENIENCE OR NECESSITY

Because there is an over-concentration of on-sale licenses in ABC Census Reporting District No. 889.03, pursuant to Business and Provisions Code Sections 23958 and 23958.4, ABC may not issue a new Alcoholic Beverage Control license to the Applicant unless the Planning Commission determines that the public convenience or necessity would be served by issuance of the license. The Planning Commission cannot make a finding of public convenience or necessity. The Planning Commission finds that the proposal to intensify the existing restaurant use, by upgrading the ABC Type "41" (Beer and wine) License to an ABC Type "47" (Beer, wine, and hard liquor) License and to add karaoke live entertainment, at this time will potentially adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, as the applicant has not successfully demonstrated a continuous display of compliance with its current Conditional Use Permit.

Furthermore, Business and Professions Code Section 23958 states that an application for an ABC license shall be denied if issuance of the license would tend to create a law enforcement problem. The Planning Commission finds that approval of the applicant's request would intensify the business operations through the upgrade of the current ABC Type "41" License to an ABC Type "47" License, and the addition of karaoke live entertainment, stage, amplified sound, and associated karaoke equipment. Based on previous observations made by the Police Department, where the applicant had not shown the ability to operate in compliance with its current Conditional Use Permit, the Planning Commission further finds that the applicant's request will potentially put further strain on Police Department resources and increase the calls for service in an area that is above the average crime count for the district.

FINDINGS AND REASONS SUPPORTING DENIAL OF CUP REQUEST:

In order to approve Conditional Use Permit No. CUP-120-2018, all of the findings set forth in Garden Grove Municipal Code Section 9.32.030(D)(4) must be made. In this case, based on the totality of information provided, the Planning Commission finds that not all of the required findings set forth in Section 9.32.030(D)(4) can be made for the following reasons:

- A. In order to approve the requested Conditional Use Permit, the Planning Commission must find that the proposed use will be consistent with the City's adopted General Plan. General Plan Land Use Element Goal LU-4 provides that "The City seeks to develop uses that are compatible with one another." In addition, pursuant implementing Policy LU-IMP-4A of the General Plan Land Use Element, it is the City's policy to monitor existing and review all requests to expand intensive commercial uses. The existing restaurant, with alcohol sales and limited non-amplified live entertainment, is already an intensive commercial use, and the request to upgrade the alcohol license to allow liquor sales and to add live entertainment in the form of amplified karaoke would further significantly intensify the permitted restaurant use. The existing Conditional Use Permit governing the subject restaurant does not permit live entertainment involving audience participation, an amplified sound system, a stage, or a dance floor and provides that sound generated in the establishment should not be audible outside of the premises; however, the evidence presented to the Planning Commission shows that many provisions of the existing Conditional Use Permit have not been regularly complied with in the past. According to the Garden Grove Police Department, the prior and current owners and/or operators of the subject restaurant have a documented history of failing to comply with the existing Conditional Use Permit and applicable conditions of approval, and the Police Department has issued both verbal warnings and administrative citations to the current owner for CUP violations. In addition, the Police Department reports that, historically, there have been a relatively large volume of calls for service associated with the subject establishment, including, without limitation, calls for service involving noise complaints, disturbing the peace, fights, and individual possessing weapons. Police officers have also observed and issued citations for patrons illegally smoking inside the establishment. These documented violations negatively impact surrounding properties and businesses. Allowing the existing establishment to operate with hard liquor sales and/or amplified live entertainment in the form of karaoke will intensify the characteristics of the business associated with these negative impacts that affect surrounding properties and businesses. Further, the provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use Permit would intensify the existing restaurant use further and likely generate additional parking demand,

which would negatively impact other businesses within the shopping center. For these reasons, the more intense uses proposed would be incompatible with surrounding uses, and approval of the requested Conditional Use Permit would not be consistent with Goal LU-4 of the General Plan's Land Use Element. Therefore, the Planning Commission is unable to find that the proposed uses are consistent with the City's General Plan.

- B. In order to approve the requested Conditional Use Permit, the Planning Commission must find that the requested use at the location proposed will not: adversely affect the health, peace, comfort, or welfare of the persons residing or working in the surrounding area, or unreasonably interfere with the use, enjoyment, or valuation of the property of other persons located in the vicinity of the site, or jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare. Subsection 9.16.020.080.C.1 of the Garden Grove Municipal Code provides that in considering requests for conditional use permits for alcoholic beverage sales, "of particular concern will be . . . the compatibility of the proposed use with neighboring uses, and that no adverse effect on public health, safety or welfare will be created." Subsection 9.16.020.080.C.3 further provides, "The proposed use shall not be incompatible with the adjoining uses as it relates to noise, debris, traffic, storage, design and hours of operation, nor shall it create any adverse effect on public health, safety or welfare." The applicant proposes to upgrade the existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License, under which the restaurant operates, to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to add karaoke live entertainment, a stage, and amplified music/entertainment. This proposed intensification of use has the potential to adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, may potentially interfere with the use, enjoying or valuation of the property of other persons located within the vicinity of the site, and may potentially jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare. From 2015 to present, the Police Department has responded to a relatively large volume of calls for service generated from or associated with the existing restaurant, has observed multiple instances of noncompliance with the existing conditions of approval governing the establishment and issued at least two administrative citations to the restaurant's operator for such violations, and has observed and cited patrons of the restaurant for smoking inside the restaurant. Despite being put on notice of these issues, the applicant has not demonstrated a consistent ability to comply with the conditions of approval and other laws governing its business. It can be anticipated that allowing the sale of hard liquor and/or allowing expanded, amplified entertainment at the restaurant will compound the problems previously observed and result in even more calls for service by the Police Department for crimes and incidents. Thus, approval of the applicant's request would potentially put further strain on Police Department resources and increase the calls for service in an area that is already above the average crime count for the district. Further, the provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping

center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use Permit would intensify the existing restaurant use further and likely generate additional parking demand, which would negatively impact other businesses within the shopping center. As a result, the Planning Commission is unable to make the required finding that the proposed use at the location proposed will not: adversely affect the health, peace, comfort, or welfare of the persons residing or working in the surrounding area, or unreasonably interfere with the use, enjoyment, or valuation of the property of other persons located in the vicinity of the site, or jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare.

- C. In order to approve the requested Conditional Use Permit, the Planning Commission must find that the proposed site is adequate in size and shape to accommodate the parking facilities prescribed in the Land Use Code or as is otherwise required in order to integrate such use with the uses in the surrounding area. The provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use Permit would intensify the existing restaurant use further and likely generate additional parking demand, which would negatively impact other businesses within the shopping center. Therefore, the Planning Commission is unable to make the required finding that the size and shape of the site for the proposed more intense uses is adequate to accommodate the parking demand that would be generated or to integrate the proposed uses with the uses in the surrounding area.

#### RELIANCE ON THE RECORD

Unless otherwise provided, each and every one of the findings and conclusions in this Resolution are based on the competent and substantial evidence, both oral and written, contained in the entire record relating to the Conditional Use Permit. The findings and conclusions constitute the independent findings and conclusions of the Planning Commission in all respects and are fully and completely supported by substantial evidence in the record as a whole. Unless otherwise provided, all summaries of information in this Resolution are based on the substantial evidence in the record. The absence of any particular fact from any such summary is not an indication that a particular finding is not based in part on that fact.



INCORPORATION OF FACTS AND REASONS SET FORTH IN STAFF REPORT

In addition to the foregoing, the Planning Commission incorporates herein by this reference, the facts and reasons set forth in the staff report.

BE IT FURTHER RESOLVED that the Planning Commission does conclude:

1. The requested Conditional Use Permit does not possess characteristics that would indicate justification of the request in accordance with Municipal Code Section 9.32.030 (Conditional Use Permits).
2. The applicant's request for Conditional Use Permit No. CUP-120-2018 is denied in its entirety.

Adopted this 19th day of April 2018

ATTEST:

/s/ GEORGE BRIETIGAM  
CHAIR

/s/ JUDITH MOORE  
RECORDING SECRETARY

STATE OF CALIFORNIA     )  
COUNTY OF ORANGE     ) SS:  
CITY OF GARDEN GROVE )

I, JUDITH MOORE, Secretary of the City of Garden Grove Planning Commission, do hereby certify that the foregoing Resolution was duly adopted by the Planning Commission of the City of Garden Grove, California, at a meeting held on April 19, 2018, by the following vote:

AYES:	COMMISSIONERS:	(5)	BRIETIGAM, LAZENBY, NGUYEN, TRUONG, SALAZAR
NOES:	COMMISSIONERS:	(0)	NONE
ABSENT:	COMMISSIONERS:	(2)	KANZLER, LEHMAN

/s/ JUDITH MOORE  
RECORDING SECRETARY

PLEASE NOTE: Any request for court review of this decision must be filed within 90 days of the date this decision was final (See Code of Civil Procedure Section 1094.6).

A decision becomes final if it is not timely appealed to the City Council. Appeal deadline is May 10, 2018.

MINUTE EXCERPT

GARDEN GROVE PLANNING COMMISSION

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PUBLIC HEARING – CONDITIONAL USE PERMIT NO. CUP-120-2018. FOR PROPERTY LOCATED AT 14291 EUCLID STREET #D101, WEST SIDE OF EUCLID STREET, SOUTH OF FORBES AVENUE.

Applicant: QUAN HOA AN, LLC (KIMBERLY B. LE)

Date: April 19, 2018

Request: Conditional Use Permit approval to upgrade an existing State Alcoholic Beverage Control (ABC) Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to allow live entertainment, in the form of karaoke, along with associated components (i.e., amplified sound, stage, and karaoke equipment), for an existing 1,885 square foot restaurant, Pho Hoa An Restaurant, currently operating under Conditional Use Permit No. CUP-102-03. The site is in the PUD-104-81 (Planned Unit Development) zone.

Action: Public Hearing held. Speaker(s): (All spoke in favor of request) Dale Washington, Kimberly Le, Andy Quach, Patrick Hoang, Mimi Nguyen, Van Le

Action: Resolution of Denial No. 5907-18 was approved.

Motion: Lazenby Second: Salazar

Ayes: (5) Brietigam, Lazenby, Nguyen, Salazar, Truong

Noes: (0) None

Absent: (2) Kanzler, Lehman

GARDEN GROVE CITY COUNCIL

RESOLUTION NO.

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE  
DENYING THE APPEAL AND UPHOLDING THE PLANNING COMMISSION'S DECISION  
TO DENY CONDITIONAL USE PERMIT NO. CUP-120-2018

WHEREAS, the case was initiated by Quan Hoa An LLC c/o Kimberly B. Le ("Applicant"), owner/operator of Pho Hoa An Restaurant, an existing restaurant located on the west side of Euclid Street, south of Forbes Avenue, at 14291 Euclid St. #D101, Garden Grove, Assessor's Parcel No. 099-183-03 (the "Property"), and currently operating with an existing State Alcoholic Beverage Control (ABC) Type "41" (On-Sale, Beer and Wine, Public Eating Place) License approved under Conditional Use Permit No. CUP-102-03;

WHEREAS, the Conditions of Approval to Conditional Use Permit No. CUP-102-03 permit the restaurant to operate with, but not limited to: live entertainment limited to a solo paid professional performer; no audience participation; no amplified sound system; no dancing, karaoke or disc-jockey entertainment or sport bar activity; no noise generated from the establishment to be audible outside the establishment; no stage area or dance floor allowed;

WHEREAS, the property is located in the PUD-104-81/86 REV. 90 (Planned Unit Development) zone, and has a General Plan Land Use Designation of Industrial/Commercial Mixed Use;

WHEREAS, the Applicant is requesting Conditional Use Permit (CUP) approval to upgrade an existing State Alcoholic Beverage Control (ABC) Type "41" (On-Sale, Beer and Wine, Public Eating Place) License to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to allow live entertainment, in the form of karaoke, along with associated components (i.e., amplified sound, stage, and karaoke equipment), for an existing 1,885 square foot restaurant, Pho Hoa An Restaurant, located at 14291 Euclid Street #D101, Garden Grove, which is currently operating under Conditional Use Permit No. CUP-102-03;

WHEREAS, pursuant to Resolution No. 5907-18, the Planning Commission, following a Public Hearing held on April 19, 2018, denied Conditional Use Permit No. CUP-120-2018;

WHEREAS, the applicant has appealed the Planning Commission's denial of Conditional Use Permit No. CUP-120-2018 to the City Council;

WHEREAS, the City of Garden Grove has determined that because the application is denied, the project is exempt from the requirements of the California Environmental Quality Act pursuant to CEQA Guidelines 15270(a);

WHEREAS, pursuant to legal notice, a Public Hearing was held by the City Council on July 10, 2018, and all interested persons were given an opportunity to be heard; and

WHEREAS, the City Council gave due and careful consideration to the matter during its meeting of July 10, 2018.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF GARDEN GROVE HEREBY RESOLVES, DETERMINES, AND FINDS AS FOLLOWS:

SECTION 1. The above recitals are true and correct, and are incorporated herein by reference.

SECTION 2. In order to approve Conditional Use Permit No. CUP-120-2018, all of the findings set forth in Garden Grove Municipal Code Section 9.32.030(D)(4) must be made. In this case, based on the totality of information provided, the City Council concurs with the decision of the Planning Commission and finds that not all of the required findings set forth in Section 9.32.030(D)(4) can be made consistent with the facts, findings, and reasons set forth in Planning Commission Resolution No. 5907-18 for the following reasons:

- A. In order to approve the requested Conditional Use Permit, the City Council must find that the proposed use will be consistent with the City's adopted General Plan. General Plan Land Use Element Goal LU-4 provides that "The City seeks to develop uses that are compatible with one another." In addition, pursuant implementing Policy LU-IMP-4A of the General Plan Land Use Element, it is the City's policy to monitor existing and review all requests to expand intensive commercial uses. The existing restaurant, with alcohol sales and limited non-amplified live entertainment, is already an intensive commercial use, and the request to upgrade the alcohol license to allow liquor sales and to add live entertainment in the form of amplified karaoke would further significantly intensify the permitted restaurant use. The existing Conditional Use Permit governing the subject restaurant does not permit live entertainment involving audience participation, an amplified sound system, a stage, or a dance floor and provides that sound generated in the establishment should not be audible outside of the premises; however, the evidence presented to the Planning Commission and City Council shows that many provisions of the existing Conditional Use Permit have not been regularly complied with in the past. According to the Garden Grove Police Department, the prior and current owners and/or operators of the subject restaurant have a documented history of failing to comply with the existing Conditional Use Permit and applicable conditions of approval, and the Police Department has issued both verbal warnings and administrative citations to the current owner for CUP violations. In addition, the Police Department reports that, historically, there have been a relatively large volume of calls for service associated with the subject establishment, including, without limitation,

calls for service involving noise complaints, disturbing the peace, fights, and individuals possessing weapons. Police officers have also observed and issued citations for patrons illegally smoking inside the establishment in violation of State law. These documented violations negatively impact surrounding properties and businesses. Allowing the existing establishment to operate with hard liquor sales and/or amplified live entertainment in the form of karaoke will intensify the characteristics of the business associated with these negative impacts that affect surrounding properties and businesses. Further, the provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use Permit would intensify the existing restaurant use further and likely generate additional parking demand, which would negatively impact other businesses within the shopping center. For these reasons, the more intense uses proposed would be incompatible with surrounding uses, and approval of the requested Conditional Use Permit would not be consistent with Goal LU-4 of the General Plan's Land Use Element. Therefore, the City Council is unable to find that the proposed uses are consistent with the City's General Plan.

- B. In order to approve the requested Conditional Use Permit, the City Council must find that the requested use at the location proposed will not: adversely affect the health, peace, comfort, or welfare of the persons residing or working in the surrounding area, or unreasonably interfere with the use, enjoyment, or valuation of the property of other persons located in the vicinity of the site, or jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare. Subsection 9.16.020.080.C.1 of the Garden Grove Municipal Code provides that in considering requests for conditional use permits for alcoholic beverage sales, "of particular concern will be . . . the compatibility of the proposed use with neighboring uses, and that no adverse effect on public health, safety or welfare will be created." Subsection 9.16.020.080.C.3 further provides, "The proposed use shall not be incompatible with the adjoining uses as it relates to noise, debris, traffic, storage, design and hours of operation, nor shall it create any adverse effect on public health, safety or welfare." The applicant proposes to upgrade the existing ABC Type "41" (On-Sale, Beer and Wine, Public Eating Place) License, under which the restaurant operates, to a new ABC Type "47" (On-Sale, General, Public Eating Place) License, and to add karaoke live entertainment, a stage, and amplified music/entertainment. This proposed intensification of use has the potential to adversely affect the health, peace, comfort or welfare of persons residing or working in the surrounding area, may potentially interfere with the use, enjoying or valuation of the property of other

persons located within the vicinity of the site, and may potentially jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare. From 2015 to present, the Police Department has responded to a relatively large volume of calls for service generated from or associated with the existing restaurant, has observed multiple instances of noncompliance with the existing conditions of approval governing the establishment and issued at least two administrative citations to the restaurant's operator for such violations, and has observed and cited patrons of the restaurant for smoking inside the restaurant in violation of State law. Despite being put on notice of these issues, the applicant has not demonstrated a consistent ability to comply with the conditions of approval and other laws governing its business. It can be anticipated that allowing the sale of hard liquor and/or allowing expanded, amplified entertainment at the restaurant will compound the problems previously observed and result in even more calls for service by the Police Department for crimes and incidents. Thus, approval of the applicant's request would potentially put further strain on Police Department resources and increase the calls for service in an area that is already above the average crime count for the district. Further, the provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use Permit would intensify the existing restaurant use further and likely generate additional parking demand, which would negatively impact other businesses within the shopping center. As a result, the City Council is unable to make the required finding that the proposed use at the location proposed will not: adversely affect the health, peace, comfort, or welfare of the persons residing or working in the surrounding area, or unreasonably interfere with the use, enjoyment, or valuation of the property of other persons located in the vicinity of the site, or jeopardize, endanger, or otherwise constitute a menace to public health, safety, or general welfare.

- C. In order to approve the requested Conditional Use Permit, the City Council must find that the proposed site is adequate in size and shape to accommodate the parking facilities prescribed in the Land Use Code or as is otherwise required in order to integrate such use with the uses in the surrounding area. The provisions of the PUD in which the subject restaurant is located permits all retail and restaurant uses within the shopping center in which the restaurant is located to be parked at a ratio of 1 space per 250 square feet, while restaurants of this size located in other parts of the City would generally be required to be parked at a ratio of 1 space per 100 square feet, with entertainment uses generally requiring even more parking. Approval of the proposed Conditional Use

Permit would intensify the existing restaurant use further and likely generate additional parking demand, which would negatively impact other businesses within the shopping center. Therefore, the City Council is unable to make the required finding that the size and shape of the site for the proposed more intense uses is adequate to accommodate the parking demand that would be generated or to integrate the proposed uses with the uses in the surrounding area.

Section 3. Based upon the foregoing findings, and the upon the facts, findings and reasons set forth in Planning Commission Resolution No. 5907-18 (which are on file in the office of the City Clerk, concurrently submitted in the agenda materials for Conditional Use Permit No. CUP-120-2018, and incorporated herein by reference with the same force and effect as set forth in full), the Applicant's appeal is hereby denied, the Planning Commission's decision is upheld, and Conditional Use Permit No. CUP-120-2018 is hereby denied.

2018 MAY -8 PM 3:31

**APPEAL**

**REQUEST FOR CITY COUNCIL OR PLANNING COMMISSION PUBLIC HEARING**

TO: City Clerk's Office, City of Garden Grove  
11222 Acacia Parkway, Garden Grove, CA 92840  
(714) 741-5040

Pursuant to Section 9.32.110 of the Municipal Code, I hereby appeal the decision of the  
☒ **Planning Commission** / ☐ **Zoning Administrator** in Case No. CUP-120-2018  
and petition the ☒ **City Council** / ☐ **Planning Commission** for a Public Hearing to  
consider ☒ **approving** / ☐ **denying** / ☐ **modifying** the subject application for the  
following reasons:

Applicant has demonstrated most requirements of the  
GAPD & the current CUP is outdated. The Applicant  
is the only restaurant within the city that is trying to  
comply with the city's regulations.

Requesting July 10 2018 council meeting.

Date: 5/8/2018 Appeal Fee (see reverse): \_\_\_\_\_

Appellant: Rimberly Lee

Address: 14291 Euclid St # D101

City & ZIP: Garden Grove 92843 Phone No.: (714) 553-9767

pls: cc Andy Quach@hotmail.com (714) 287-8792



## **TITLE 9 APPEALS**

### **SECTION 9.32.110 PURPOSE**

The purpose of an appeal of a Hearing Body decision is to allow an applicant or an interested party of a land use action who feels aggrieved by the decision to seek review of the case by another imported hearing body.

### **SECTION 9.32.120 TIME FOR APPEAL**

A decision of a Hearing Body on a land use action may be appealed by the applicant or an individual within twenty-one (21) days of the date on which the decision was rendered.

### **SECTION 9.32.130 FILING OF AN APPEAL**

All appeals shall be submitted to the City Clerk on a City application form along with all applicable fees and shall specifically state the basis for the appeal.

### **SECTION 9.32.140 NOTICE OF AN APPEAL**

Notice of an appeal hearing shall conform to the manner in which the original notice was given, as described in Section 9.32.040-100 of this Chapter.

### **SECTION 9.32.150 APPEAL HEARING/DECISION**

- A. The hearing and decision procedures of an appeal shall be in accordance with 9.32.040-100 of this Chapter.
- B. Any modification of a land use action that was appealed by City Council shall be returned to the City Council for review.

Appeal Fee*	
General Plan Amendment	\$350
Amendment	\$350
Site Plan Amendment	\$350
Site Plan	\$350
Variance	\$350
Conditional Use Permit	\$480
Unclassified Use Permit	\$350
Planned Unit Development	\$350

\*Tenants/Owners/Residents within legal notification area (300 feet) the appeal fee is \$100.00.

May 7, 2018

2018 MAY -8 PM 3: 31

To: Garden Grove City Clerk

12222 Acacia Parkway, Garden Grove CA, 92840

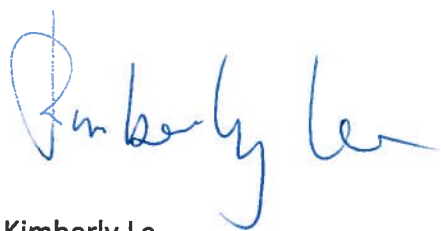
From: Kimberly Le

14291 Euclid St # D101, Garden Grove CA, 92843

Re: Appeal of Thursday, April 19, 2018 Planning Commission's Decision to the Garden Grove City Council (Item C.1.) PUBLIC - HEARING - CONDITIONAL USE PERMIT FOR PROPERTY LOCATED AT 14291 EUCLID STREET #D101, WESTSIDE OF EUCLID STREET, SOUTH OF FORBES AVENUE.

This letter is to appeal the above referenced planning commission denial to the Garden Grove City Council to its next earliest available agenda. If you have any questions. Please call (714)553-9767.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kimberly Le". The signature is fluid and cursive, with a large initial "K" and a long, sweeping underline.

Kimberly Le,

Applicant/Owner

June 25, 2018

Hi Chris,

This email is to formally request a change in our city council appeal from asking for a type 47 to just maintaining our current type 41. Our request for live entertainment remains. E.g., we are canceling the hard liquor request!

Thank you very much for your time and attention.

Kimberly B. Le  
HOA AN QUAN  
14291 Euclid St. Unit D101  
Garden Grove, CA 92843

 6/25/2018

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To:	Scott C. Stiles	From:	William E. Murray
Dept.:	City Manager	Dept.:	Public Works
Subject:	Approval of an Agreement with Siemens Industries, Inc. for implementing an energy efficiency modernization project; and approval of an Interfund Loan and Repayment Agreement for the upgrade and purchase of energy efficiency equipment for the operation of the City's heating, ventilation, air conditioning systems and lighting. (Cost: \$2,850,550) ( <i>Action Item</i> )		
		Date:	6/26/2018

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**OBJECTIVE**

To secure City Council approval of an agreement with Siemens Industries to perform a citywide energy efficiency modernization project; and to approve the attached Interfund Agreement to fund the upgrade and purchase of energy efficiency equipment for the operation of the City's heating, ventilation, air conditioning systems and lighting.

**BACKGROUND**

On October 10, 2017, City Council approved an agreement with Siemens Industries to perform a citywide investment grade energy audit, as well as develop and propose a design build, net budget neutral, energy efficiency facilities modernization project. The results of the audit identified conditions and equipment that waste energy and increase the City's utility costs. Siemens Industries developed a comprehensive project that include facility improvement measures (FIM's) that encompass LED lighting, energy efficient heating, ventilation, and air conditioning improvements, building plug load solutions and environmental management system controls.

The goal of the project is to reduce our energy use to a responsible level, resulting in

reduced utility costs and make needed improvements to Parks and Facilities with net zero budget impact through Siemens performance contracting service. The total project costs will be offset by energy cost savings over the term of the project. Moreover, Siemens will provide a written guarantee of the projected utility savings and reduced operating costs.

## DISCUSSION

Siemens conducted a financial and engineering analysis of proposed FIM's at multiple City facilities. Based on that analysis, Siemens proposed a project whereby Siemens would complete the upgrades, with no out-of-pocket expense to the City and provide a mechanism for the City to pay Siemens from the energy savings over a 19-year period.

Moving forward, the City will realize continued savings through reduced energy costs, after paying off the project, as well as a reduction in maintenance and repair costs due to the replacement of inefficient outdated equipment. Additionally, by implementing the project, Public Works will eliminate necessary future capital expenses and costly emergency repairs. Because this project would be paid from the energy savings it provides a means for improving the aging infrastructure at multiple city parks and buildings that otherwise would not be possible. Public Works recognizes that this modernization project is in the best long-term interests of the City. The table below reflects the proposed FIM's:

Interior/Exterior Lighting	Citywide
Package Unit Replacement	Public Works; FS #5; Gem Theater; Teen Center (Eastgate Park); Magnolia Park Neighborhood Center; Sports and Rec Center
Chiller Replacement	City Hall
Boiler Replacement	Police Department
Refurbish AHU's	City Hall; Police Department
Building Controls	City Hall; Juvenile Justice; Property & Evidents; FS #5; FS #6; FS #7; Public Works; Buena Clinton; Courtyard Center/Activity Room; Police Annex; Magnolia Park Neighborhood Center; Festival Amphitheatre; Teen Center; community Service Center (Westgrove Park).
Plug Load	City Hall; Community Meeting Center; Public Works; Buena Clinton

## FINANCIAL IMPACT

The General Purpose Fund will be borrowing an amount not-to-exceed \$2,850,550 from the Risk Management Fund to pay for the energy efficiency project, per Siemens contract (attached). The payments to Siemens will cover the cost of the heating, ventilation, and air conditioning systems and lighting retrofit equipment and installation.

The General Purpose Fund will repay the loan over 19 years at the simple interest rate of 3.6%, which is an estimated tax exempt bond rate for A rated paper obtained from the City's external financial advisor (see Attachment 1: InterFund Loan and Repayment Agreement). The anticipated annual utility and maintenance savings from currently budgeted funds will be used to cover the costs of the annual interfund loan payments. Thus, the program is anticipated to be budget neutral.

## RECOMMENDATION

It is recommended that the City Council:

- Approve the Interfund Loan and Repayment Agreement from the Risk Management Fund to the General Purpose Fund, in the amount not to exceed \$2,850,550, with the first annual payment beginning in Fiscal Year 2019-2020;
- Approve the agreement with Siemens Industries, Inc., for the City's Facilities Energy Efficiency Project in the amount of \$2,800,000; and
- Authorize the City Manager to sign the agreement on behalf of the City, and make minor modifications as appropriate.

By: Phillip Carter  
Facilities Manager

## ATTACHMENTS:

Description	Upload Date	Type	File Name
Attachment 1: Interfund Loan and Repayment Agreement	7/2/2018	Backup Material	Interfund_Loan_and_Repayment_Agreement.pdf
Attachment 3: Exhibit B Payment Schedule	6/20/2018	Backup Material	Exhibit_B_Payment_Schedule.doc
Attachment 4: Exhibit C Performance Assurance	6/20/2018	Backup Material	Exhibit_C_Performance_Assurance.docx
Attachment 2: Siemens Agreement	7/2/2018	Backup Material	Siemens_Performance_Contracting_Agreement.pdf

## **INTERFUND LOAN AND REPAYMENT AGREEMENT**

### **BETWEEN RISK MANAGEMENT FUND AND GENERAL PURPOSE FUND**

This Agreement, dated July 15, 2018, is to memorialize the interfund loan approved by the City Council at its regular meeting on July 10, 2018, approving a loan from the Risk Management Fund to the General Purpose Fund for the upgrade and purchase of energy efficiency equipment for the operation of the City's Heating, Ventilation, and Air Conditioning systems and Lighting.

### **RECITALS**

WHEREAS, the City Council authorized funding the loan from the Risk Management Fund for a period of 19 years subject to simple interest at the rate of 3.6%; and

WHEREAS, the City wishes to memorialize the loan terms pursuant to this Agreement.

### **AGREEMENT**

NOW, THEREFORE, the City memorializes an interfund loan as follows:

#### **1. PURPOSE**

The purpose of this Agreement is to memorialize the loan from the Risk Management Fund to the General Purpose Fund.

#### **2. TERM OF AGREEMENT**

This Agreement shall be in full force and effect for a period beginning as of July 15, 2018, and continue until repayment is satisfied in full accordance with the terms of this Agreement. The cash will be transferred from the Risk Management Fund to the General Purpose Fund on July 15, 2018 with the first annual payment of interest and principal due on July 15, 2019.

#### **3. REPAYMENT OF INTERFUND LOAN**

The General Purpose Fund will repay the Risk Management Fund the amount of \$2,850,550 Dollars. This debt shall bear simple interest at the 3.6% rate (the estimated tax-exempt debt rate A rated paper as of June 2018) beginning on July 15, 2018 and shall be repayable as provided in Section 4.

#### **4. REPAYMENT TERMS**

The payment of principal plus interest thereon shall be made annually as outlined in Exhibit 1 – Payment Schedule. The principal may be prepaid without penalty at any time. Beginning July 15, 2019, any unpaid interest shall accrete to principal.

5. TERMINATION OF AGREEMENT

This Agreement shall expire when the loan is repaid in full.

IN WITNESS WHEREOF, the City Manager of the City of Garden Grove, as authorized by minute action of the City Council, has executed this Agreement, and the Finance Director has attested to the transfer of the funds in the principal amount of the loan.

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Scott C. Stiles  
City Manager

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Kingsley Okereke  
Assistant City Manager/Finance Director



## Article 1: Payment for Scope of Work

- 1.1 **Price:** As full consideration of the Work as described in Exhibit A, Article 1: Scope of Work, the CLIENT shall pay to SIEMENS **\$2,846,439** (plus taxes, if applicable).
- 1.2 **Sufficient Funds:** The CLIENT warrants and represents that: (i) it possesses sufficient funds to pay in full the amount set forth in Section 1.1 above; (ii) such funds are on deposit with the City of Garden Grove Treasurer, and (iii) such funds have been specifically dedicated to the Project and shall not be used for any other purpose.
- 1.3 **Timely Payments:** The CLIENT agrees to pay SIEMENS per Table B.1 below. CLIENT agrees to pay all invoices submitted by SIEMENS per Article 8 of the Agreement.

**Table B.1 – FIM Work Payment Schedule**

Project Phase	Payments (\$)	Payments (%)	Schedule
Mobilization		25%	
Project Installation		70%	Billed monthly as POC
Project Retention		5%	
<b>PROJECT TOTAL:</b>		100%	\$2,846,439

Article 1 of Exhibit B is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT: City of Garden Grove**

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

**SIEMENS: Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

## Article 2: Payment for Performance Assurance Services Program (PASP)

- 2.1 **Price:** As full consideration of the Services as described in Exhibit A, Article 3, the CLIENT shall pay to SIEMENS the amounts identified in Table B.2 plus taxes, if applicable, on the dates identified therein.
- 2.2 **Performance Assurance Services Program Term:** The term of the PASP shall commence on the Guarantee Date and shall extend for either: (a) the term of the Performance Guarantee Period where multi-year obligations are allowed; or (b) for twelve (12) month periods corresponding to the term of each Annual Period.
- 2.3 **Automatic Renewal:** Where the PASP term is limited to an Annual Period, the PASP shall automatically renew for successive Annual Periods beginning on the anniversary date of Guarantee Date. Either party may request to amend the PASP at the end of an Annual Period by giving the other party at least sixty (60) days prior written notice of such amendments and such amendment shall be mutually negotiated by the Parties and effective upon a written amendment signed by both Parties prior to commencement of the next Annual Period. Each automatic renewal shall be and remain subject to the terms and conditions of this Agreement. SIEMENS obligations under the Performance Guarantee are dependent upon and subject to the express condition that the CLIENT maintains the PASP during the entire Performance Guarantee Period.
- 2.4 **Termination:** See Section 4.7 of the Agreement.

**Table B.2 – Performance Assurance Program Payment Schedule**

Date	Annual Payments (\$) *	Notes
Annual Period 1	\$ 20,718	Billed at project acceptance
Annual Period 2	\$ 21,340	Billed at 1 <sup>st</sup> anniversary of project acceptance
Annual Period 3	\$ 21,980	Billed at 2 <sup>nd</sup> anniversary of project acceptance
Annual Period 4	\$ 22,639	Billed at 3 <sup>rd</sup> anniversary of project acceptance
Annual Period 5	\$ 23,318	Billed at 4 <sup>th</sup> anniversary of project acceptance
Annual Period 6	\$ 24,018	Billed at 5 <sup>th</sup> anniversary of project acceptance
Annual Period 7	\$ 24,738	Billed at 6 <sup>th</sup> anniversary of project acceptance
Annual Period 8	\$ 25,481	Billed at 7 <sup>th</sup> anniversary of project acceptance
Annual Period 9	\$ 26,245	Billed at 8 <sup>th</sup> anniversary of project acceptance
Annual Period 10	\$ 27,032	Billed at 9 <sup>th</sup> anniversary of project acceptance
Annual Period 11	\$ 27,843	Billed at 10 <sup>th</sup> anniversary of project acceptance
Annual Period 12	\$ 28,679	Billed at 11 <sup>th</sup> anniversary of project acceptance
Annual Period 13	\$ 29,539	Billed at 12 <sup>th</sup> anniversary of project acceptance
Annual Period 14	\$ 30,425	Billed at 13 <sup>th</sup> anniversary of project acceptance
Annual Period 15	\$ 31,338	Billed at 14 <sup>th</sup> anniversary of project acceptance
Annual Period 16	\$ 32,278	Billed at 15 <sup>th</sup> anniversary of project acceptance
Annual Period 17	\$ 33,246	Billed at 16 <sup>th</sup> anniversary of project acceptance
Annual Period 18	\$ 33,246	Billed at 17 <sup>th</sup> anniversary of project acceptance
Annual Period 19	\$ 33,246	Billed at 18 <sup>th</sup> anniversary of project acceptance

\*3% escalation annually

## Exhibit B – Payment Schedules

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Article 2 of Exhibit B is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT:**            **City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:**        **Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## Articles and Tables

The following Articles and Tables are hereby included and made part of this Exhibit C:

Article 1	Total Guaranteed Savings
Article 2	Measurement and Verification Options
Article 3	Performance Guarantee Period Responsibilities of CLIENT
Article 4	Measurement and Verification Plan
Article 5	Baseline Data
Article 6	Utility Rate Structures and Escalation Rates
Article 7	Contracted Baseline Data
Appendix 1-	Lighting Audit
Appendix 2-	Plug Load Audit
Appendix 3-	BERT Pre-Installation Software and Network setup guide

This Exhibit C provides the methodology to be used to determine the Annual Realized Savings and the reconciliation of these calculated Savings with the Guaranteed Annual Savings for each Annual Period of the Performance Guarantee Period. The Scope of Services for the Performance Assurance Service Program is provided in Article 3 of Exhibit A.

## Article 1: Total Guaranteed Savings

**Table 1.1 – Total Guaranteed Savings (Units)**

Performance Period	Electric Energy Saved (kWh)	Electric Power Saved (kW)	Natural Gas Saved (Therms)
Construction	457,701	58.4	
Annual Period 1	1,213,659	127.1	3969.1

- 1.1 Only Annual Period 1 is shown as the energy/utility unit Savings will remain constant for each Annual Period of the Performance Guarantee Period as the CLIENT will operate the Facility in accordance with the Contracted Baseline identified in Article 7.

**Table 1.2 – Total Guaranteed Savings (Cost)**

Performance Period	Energy/Utility Savings	Operational Savings	Total Savings
Construction	\$53,261	\$6,719	\$59,980
Annual Period 1	\$136,030	\$11,816	\$147,846
Annual Period 2	\$141,471	\$12,170	\$153,641
Annual Period 3	\$147,130	\$12,535	\$159,665
Annual Period 4	\$153,015	\$12,911	\$165,927
Annual Period 5	\$159,136	\$13,299	\$172,435
Annual Period 6	\$165,501	\$13,698	\$179,199
Annual Period 7	\$172,121	\$14,109	\$186,230
Annual Period 8	\$179,006	\$14,532	\$193,538
Annual Period 9	\$186,166	\$14,968	\$201,134
Annual Period 10	\$193,613	\$15,417	\$209,030

Annual Period 11	\$201,357	\$15,879	\$217,237
Annual Period 12	\$209,412	\$16,356	\$225,768
Annual Period 13	\$217,788	\$16,846	\$234,635
Annual Period 14	\$226,500	\$17,352	\$243,852
Annual Period 15	\$235,560	\$17,872	\$253,432
Annual Period 16	\$244,982	\$18,409	\$263,391
Annual Period 17	\$254,781	\$18,961	\$273,742
Annual Period 18	\$264,973	\$19,530	\$284,502
Annual Period 19	\$275,572	\$20,116	\$295,687
<b>TOTALS</b>	<b>\$3,817,376</b>	<b>\$303,495</b>	<b>\$4,120,870</b>

- 1.2 Table 1.2 shows the CLIENT'S guaranteed cost Savings for each Annual Period that are extrapolated from the guaranteed energy/utility unit Savings shown in Table 1.1 by multiplying the energy/utility Savings by the Baseline energy/utility rates including the stipulated Escalation Rates found in Article 6.
- 1.3 SIEMENS cannot and does not predict fluctuations in utility rates or the cost of energy. Therefore, the CLIENT and SIEMENS agree that the energy/utility cost Savings for each Annual Period will be calculated by multiplying the verified units of energy/utility Savings by the Annual Period's stipulated energy/utility rate and Escalation Rates and not the Annual Period's actual utility rate.
- 1.4 The determination of energy/utility Savings will follow current best practice, as defined in the IPMVP, or the FEMP Guidelines where required, unless otherwise agreed to by the Parties.
- 1.5 The Performance Guarantee does not operate to guarantee the Savings per-FIM. Rather, the calculation of Savings is based on aggregate performance of all of the FIMs contained in the Project. The projected value of such aggregate performance is contained in Table 1.2 above representing the Total Guaranteed Savings as monetized.

This Exhibit C, comprising 39 pages, is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT:**           **City of Garden Grove**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

**SIEMENS:**       **Siemens Industry, Inc.**  
 Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Date: \_\_\_\_\_

## Article 2: Measurement and Verification Options

2.1 Measurement and Verification Options: There are five measurement and verification options to measure and verify energy/utility Savings: Option A - Retrofit Isolation: Key Parameter Measurement; Option B - Retrofit Isolation: All Parameter Measurement; Option C - Whole Facility; and, Option D – Calibrated Simulation. Options A through and including D are part of the IPMVP. Option E-Stipulated is based on industry accepted engineering standards and is the Option used for purposes of calculating Operational Savings.

**Option A - Retrofit Isolation:** Key Parameter Measurement. Savings are determined by field measurement of the key performance parameter(s) which define the energy use of the FIM's affected system(s) and/or the success of the Project. Measurement frequency ranges from short-term to continuous, depending on the expected variations in the measured parameter and the length of the reporting period. Parameters not selected for field measurement are estimated. Estimates can be based on historical data, manufacturer's specifications, or engineering judgment. Documentation of the source or justification of the estimated parameter is required. The plausible savings error arising from estimation rather than measurement is evaluated. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option B – Retrofit Isolation:** All Parameter Measurement. Savings are determined by field measurement of the energy use of the FIM-affected system. Measurement frequency ranges from short-term to continuous, depending on the expected variations in the savings and the length of the reporting period. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option C - Whole Facility:** Savings are determined by measuring energy use at the whole Facility or sub-Facility level. Continuous measurements of the entire Facility's energy use are taken throughout the reporting period. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option D - Calibrated Simulation:** Savings are determined through simulation of the energy use of the whole Facility, or of a sub-Facility. Simulation routines are demonstrated to adequately model actual energy performance measured in the Facility. This Option usually requires considerable skill in calibrated simulation. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option E – Stipulated:** This Option is the method of measurement and verification applicable to FIMS consisting either of Operational Savings or where the end use capacity or operational efficiency; demand, energy consumption or power level; or manufacturer's measurements, industry standard efficiencies or operating hours are known in advance, and used in a calculation or analysis method that will stipulate the outcome. Both CLIENT and SIEMENS agree to the stipulated inputs and outcome(s) of the analysis methodology. Based on the established analytical methodology the Savings stipulated will be achieved upon completion of the FIM and no further measurements or calculations will be performed

during the Performance Guarantee Period. If applicable, the methodology and calculations to establish Savings value will be defined in Section 4.6 of this Exhibit C.

- 2.2 Table 2.1 below summarizes the first Annual Period's Guaranteed Savings (See Article 1, Tables 1.1 and 1.2) utilizing the applicable Measurement and Verification Options as applied to the referenced FIMs valued pursuant to the agreed upon amounts identified in Article 6 hereof.

**Table 2.1 – Savings for First Annual Period by Option**

FIM	Energy/Utility Savings \$						Operational Savings \$	Total Savings \$
	Measurement and Verification Options							
	A Retrofit Isolation: Key Parameter Measurement	B Retrofit Isolation: All Parameter Measurement	C Whole Facility	D Calibrated Simulation	E Stipulated	Total Energy/Utility Savings	E Stipulated	
Package Unit Replacement	\$13,379					\$13,379		\$13,379
Boiler Replacement	\$962					\$962		\$962
Chiller Replacement	\$9,856					\$9,856		\$9,856
Refurbish AHU's	\$16,555					\$16,555		\$16,555
Lighting Retrofit	\$93,656					\$93,656	\$ 11,816	\$105,472
Plug Load	\$716					\$716		\$716
Controls	\$906					\$906		\$906
TOTALS	\$136,030					\$136,030	\$ 11,816	\$147,846

- 2.3 Table 2.2 identifies the source of Operational Savings defined and quantified by the Parties. The Parties affirm that such amounts are Stipulated Savings for purposes of calculating Annual Realized Savings and acknowledge that the Guaranteed Savings identified herein have been based on CLIENT'S affirmation. **OPERATIONAL SAVINGS SHALL NOT BE MEASURED OR MONITORED DURING THE PERFORMANCE GUARANTEE PERIOD.**

**Table 2.2 - Source of Operational Savings**

Account/Vendor	Description	Annual Cost \$	# of Annual Periods Savings Are Applied	Annual Period Savings Begin
City of Garden Grove	Interior and Exterior Lighting material replacements (Lamp, Ballasts and recycling maintenance cost reductions)	\$ 11,816	17	Construction Year

- 2.4 SIEMENS has explained to the CLIENT and the CLIENT has satisfied itself as to how Operational Savings are incorporated into the Annual Realized Savings.
- 2.5 The Escalation Factor applicable to the Operational Savings is 3%.

BY SIGNING BELOW, THE PARTIES CONFIRM THAT THEY HAVE REVIEWED THE INCLUDED MEASUREMENT AND VERIFICATION OPTIONS AND THEIR APPLICATION TO BE USED IN CALCULATING SAVINGS UNDER THE AGREEMENT.

**CLIENT:**            **City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:**            **Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**Article 3: Performance Guarantee Period Responsibilities of the CLIENT**

In addition to the CLIENT'S responsibilities under Article 6 of the Agreement, this Article details the responsibilities of the CLIENT in connection with the management and administration of the Performance Guarantee.

- 3.1 The CLIENT will provide a representative at each Facility to coordinate work and provide required data described below.
- 3.2 The CLIENT will provide SIEMENS with accurate Facility operating information as defined below and in the Contracted Baseline article of this Exhibit C during each Annual Period, within thirty (30) days of any Material Change that may increase or decrease energy usage.
- 3.3 If applicable, the CLIENT will provide SIEMENS with copies of utility bills within thirty (30) days of receipt by the CLIENT or provide access to utility vendor information to allow SIEMENS to include a utility bill analysis in the Annual Performance Assurance Report. The utility bill analysis does not take the place of the Measurement and Verification Plan identified in Article 4 of this Exhibit C and is not used to measure the Project's performance.
- 3.4 If required for the Work, CLIENT will provide telephone/data remote access, through SIEMENS Insight® software package or otherwise, as SIEMENS reasonably requests. All charges related to telephone/data line installation, activation and communication services are the responsibility of the CLIENT.
- 3.5 If required for the Work, CLIENT will provide and coordinate utility meter upgrade for interface with SIEMENS metering and data collection. All charges related for these upgrades are the responsibility of the CLIENT.

### 3.7 Article 4: Measurement and Verification Plan

The following information is applicable to this Agreement:

- Article 4.1 General Overview
- Article 4.2 Option A - Retrofit Isolation: Key Parameter Measurement
- Article 4.3 Option B - Retrofit Isolation: All Parameter Measurement
- Article 4.4 Option C - Whole Facility
- Article 4.5 Option D - Calibrated Simulation
- Article 4.6 Option E – Stipulated-Energy/Utility Savings

#### 4.1 General Overview –

The purpose of the Measurement and Verification (M&V) Plan is to identify the methods, measurements, procedures and tools that will be used to verify the Savings for each FIM which has energy/utility Savings. Savings are determined by comparing prior usage, consumption or efficiencies (defined as the “Baseline”) against the post-FIM implementation usage, consumption or efficiencies. The Baseline usage, consumption or efficiencies are described in this Exhibit C, Article 5. The post-FIM implementation usage, consumption or efficiencies is defined as the Contracted Baseline and are described in this Exhibit C, Article 7.

#### 4.2 Option A - Retrofit Isolation: Key Parameter Measurement

##### 4.2.1 Lighting Upgrade

###### **Location(s):**

<b>Location</b>	<b>Address</b>
Police Station	11301 Acacia Parkway, Garden Grove CA 92840
Juvenile Justice	11301 Acacia Parkway, Garden Grove CA 92840
Property & Evidence	11301 Acacia Parkway, Garden Grove CA 92840
Police Annex	11400 Stanford Ave, Garden Grove CA 92840
City Hall	11222 Acacia Parkway, Garden Grove CA 92840
Gem Theatre	12852 Main st. Garden Grove CA 92840
Amphitheatre	12762 Main St, Garden Grove CA 92840
Courtyard Center + Activity Center	12732 Main st. Garden Grove, CA 92840
Community Meeting Center, H. Louis Lake Senior Center	11300 Stanford Ave, Garden Grove CA 92840
Buena Clinton	12661 Sunswept Ave, Garden Grove CA 92843

Municipal Service Center	13802 Newhope St., Garden Grove CA 92843
Fire Station #1	11301 Acacia Parkway, Garden Grove CA 92840
Fire Station #2	11805 Gilbert st., Garden Grove CA 92841
Fire Station #3	12132 Trask ave., Garden Grove CA 92843
Fire Station #4	12191 Valley View st., Garden Grove CA 92845
Fire Station #5	12751 Western ave., Garden Grove CA 92841
Fire Station #7	14162 Forsyth Ln, Garden Grove CA 92844
Sports and Rec + Pump house	9301 Westminister blvd, Garden Grove CA 92844
Atlantis	9301 Westminster ave. Garden Grove CA 92844
Garden Grove Park (not including Musco/Stadium lighting)	9301 Westminister blvd, Garden Grove CA 92844
Chapman Sports Complex (not including Musco/Stadium lighting)	11990 Knott St, Garden Grove CA 92841
Woodbury Park	13800 Rosita pl., Garden Grove CA 92843
West Grove Park	5372 Cerulean Ave, Garden Grove CA 92845
Village Green Park	12852 Main St, Garden Grove CA 92840
Eastgate Park	12001 St. Mark St., Garden Grove CA 92845
Gutosky Park	9201 Ferris Ln, Garden Grove CA 92841
Magnolia Park	11402 Magnolia ave., Garden Grove CA 92841
Faylane Park	11700 Seacrest Dr., Garden Grove CA 92840
Civic Center Parking lot	11300 Stanford Ave, Garden Grove CA 92840
Library Parking lot	11300 Stanford Ave, Garden Grove CA 92840

**Overview:**

SIEMENS will retrofit the existing fixtures, lamps, and/or ballasts with more energy-efficient fixtures, lamps, and/or ballasts. SIEMENS will also install occupancy sensor controls in selected locations as per Exhibit A Appendix 1 Verification of electric energy Savings (kWh) achieved by the lighting retrofit shall be based upon a one-time measurement of the lighting power capacity under existing conditions, a one-time measurement of the lighting power capacity upon completion of the

lighting retrofit project and agreed-upon annual operating hours. Spot wattage measurements of a random sample of baseline and post-installation fixture types or fixture circuits will be used to establish demand. Sample size for wattage measurements will be determined based on FEMP guidelines for sample size determination, with overall population sample size not to exceed 10% of the retrofit population.

**Pre-Retrofit Measurement Calculations:**

$kWh_{pre} = (kW_{pre} * Quantity_{pre} * AOHrs_{pre})_{\text{fixture type "n"}}$ , summed across all fixture types = pre-retrofit annual kWh

Where:

$kW_{pre}$  = Instantaneous kW based on random sample of existing lighting-fixture types

$Quantity_{pre}$  = Count of each fixture-type based on as-built survey

$AOHrs_{pre}$  = Pre-Retrofit Annual Operating Hours, stipulated Exhibit A Appendix 1

**Post-Retrofit Measurement Calculations:**

$kWh_{post} = (kW_{post} * Quantity_{post} * AOHrs_{post})_{\text{fixture type "n"}}$ , summed across all fixture types = post-retrofit annual kWh

Where:

$kW_{post}$  = Instantaneous kW based on random sample of the installed/retrofitted lighting-fixture types

$Quantity_{post}$  = Count of each fixture-type based on as-built survey

$AOHrs_{post}$  = Post-Retrofit Annual Operating Hours, stipulated Exhibit A Appendix 1

**Savings Calculations:**

**Electric Savings (kWh/yr):**

$kWh_S = kWh_{pre} - kWh_{post}$

**Demand Savings (kW/yr):**

$kW_S = (kW_{pre} - kW_{post}) * \text{Months}$

Where:

$kW_S$  = annual post-retrofit kilowatt savings

Months = months per year of electric demand savings = 12

**Cost Savings (\$/yr):**

$\$S = (kWh_S * \$/kWh_{,x}) + (kW_S * \$/kW_{,x})$

Where:

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$/kW$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$S$  = Total annual cost savings

#### 4.2.2 Package Unit Replacement

**Location(s):** Public Works, Gem Theatre, Fire Station #5, Gem Theatre, Teen Center, Magnolia Park Neighborhood Center, Sports & Recreation Center

**Overview:**

Siemens will replace the package units as described in Exhibit A. Savings result from the increase in cooling and heating efficiency and energy savings control strategies implemented (scheduling and/or night setback/set up). Savings will be verified by continuously trending the electric power (kW) of the equipment and thermal efficiency per manufacturer's specification of install units.

In addition the control strategies implemented will be monitored to ensure the units are operating as described in Article 7 of this Exhibit C.

**Scheduling**

Continuous trending of equipment fan status (on/off) and status (occ/unocc) to verify the schedule as described in Article 7 of this Exhibit C.

**Night Setback/Set up**

Continuous trending of heating and cooling set point in conjunction with equipment status to verify the set point is setting back during heating mode and setting forward during cooling mode as described in Article 7 of this Exhibit C.

Post-retrofit, if contracted baseline schedules for this equipment, as established in Article 7 of this Exhibit C, are modified by the CLIENT and result in a loss of energy savings, the Guaranteed Savings for this FIM will be deemed achieved.

**Pre-Retrofit Measurement\Calculations:**

$kWh_{pre}$  = pre-retrofit electric consumption (kWh/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

$kW_{pre}$  = pre-retrofit electric demand (kW/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

$Therms_{pre}$  = pre-retrofit natural gas consumption (Therms/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

**Table 4.2.2.1 - Pre-retrofit Consumption by Location and Equipment**

Location	Unit	$kWh_{pre}$	$kW_{pre}$	$Therms_{pre}$
Public Works	AC-6 & AC-7	6,440	4.43	281
Public Works	AC-8	11,144	7.50	471
Public Works	AC-9	7,924	5.29	326
Fire Station #5	AC-1 & AC-2	12,797	8.50	490
Gem Theater	AC-3 & AC-5	13,102	9.68	718
Teen Center	AC-1	9,987	8.53	496
Magnolia Park Neighborhood Center	AC-1	7,891	5.30	341
Magnolia Park Neighborhood Center	AC-2	7,809	4.71	279

Sports & Recreation Center	AC-1 & AC-2	61,385	39.89	2,536
Sports & Recreation Center	AC-3	22,913	15.40	1,067
Sports & Recreation Center	AC-4	21,030	13.84	903

**Post-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{post}} = \Sigma(\text{Avg Cooling kW} * \text{AOH})_{\text{BIN}}$$

$$\text{kW}_{\text{post}} = \Sigma(\text{Avg Cooling kW})_{\text{BIN}}$$

$$\text{Therms}_{\text{post Heating}} = \Sigma(\text{Total Heating Load} / 100,000^{\text{BTU}} / \eta)_{\text{BIN}}$$

Where:

Avg Cooling Kw = average electric demand (kW) per OAT Bin as shown in Table 4.2.2.2a and b

AOH= annual operating hours per OAT Bin as shown in Table 4.2.2.2a and b

Total Heating Load = total heating load (BTU) as shown in Table 4.2.2.2a and b

$\eta$  = Thermal Efficiency verified by manufacturer's specification of installed equipment (%)

**Table 4.2.2.2a - Total Heating Load (BTU)**

Average Outdoor Air Temp (°F)	Annual Operating Hours (AOH)	Total Heating Load (BTU)				
		Public Works AC-6 & AC-7	Public Works AC-8	Public Works AC-9	Fire Station 5	Gem Theatre
97.5	3	34,494	57,889	40,642	68,160	85,804
92.5	14	27,873	46,854	32,917	56,140	71,380
87.5	67	23,998	40,397	28,398	48,699	62,451
82.5	277	20,034	33,747	23,730	41,621	53,958
77.5	522	14,760	24,865	17,485	32,187	42,493
72.5	881	9,484	15,979	11,237	22,075	29,589
67.5	1652	4,415	7,439	5,231	12,410	17,238
62.5	2188	-4,648	-7,723	-5,399	2,605	4,646
57.5	1582	-9,073	-15,074	-10,538	-12,720	-13,882
52.5	964	-13,498	-22,426	-15,677	-21,038	-23,675
47.5	432	-17,922	-29,777	-20,816	-29,355	-33,468
42.5	140	-22,347	-37,129	-25,955	-37,672	-43,260
37.5	38	-26,772	-44,480	-31,094	-45,989	-53,053

**Table 4.2.2.2b – Total Heating Load (BTU)**

Average Outdoor Air Temp (°F)	Annual Operating Hours (AOH)	Total Heating Load (BTU)					
		Teen Center	Magnolia Park Neighborhood Center AC-1	Magnolia Park Neighborhood Center AC-2	Sports & Recreation Center AC-1 & AC-2	Sports & Recreation Center AC-3	Sports & Recreation Center AC-4
97.5	3	57,390	40,642	36,171	327,847	129,701	111,109
92.5	14	46,489	32,917	29,550	267,749	105,662	90,675
87.5	67	40,167	28,398	25,676	230,545	90,780	78,026
82.5	277	33,637	23,730	21,535	195,155	76,624	65,993
77.5	522	24,912	17,485	15,874	143,489	56,328	48,519
72.5	881	16,179	11,237	10,210	91,675	35,978	30,997
67.5	1652	7,792	5,231	4,753	41,800	16,404	14,133
62.5	2188	-7,286	-5,399	-4,547	-40,225	-16,182	-13,699
57.5	1582	-14,505	-10,538	-8,874	-81,419	-32,753	-27,729
52.5	964	-21,724	-15,677	-13,202	-122,613	-49,325	-41,758
47.5	432	-28,943	-20,816	-17,530	-163,807	-65,897	-55,788
42.5	140	-36,162	-25,955	-21,857	-205,001	-82,468	-69,817
37.5	38	-43,381	-31,094	-26,185	-246,195	-99,040	-83,847

**Savings Calculations:****Electric Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

**Demand Savings (kW/yr):**

$$\text{kW}_S = (\text{kW}_{\text{pre}} - \text{kW}_{\text{post}}) * \text{Months}$$

**Natural Gas Savings (Therms/yr):**

$$\text{Therms}_S = \text{Therms}_{\text{pre}} - \text{Therms}_{\text{post}}$$

**Cost Savings (\$/yr):**

$$\$_S = (\text{kWh}_S * \$/\text{kWh}_{,x}) + (\text{kW}_S * \$/\text{kW}_{,x}) + (\text{Therms}_S * \$/\text{Therm}_{,x})$$

Where:

kW<sub>S</sub> = annual post-retrofit kilowatt savings

Months = months per year of electric demand savings = 12

\$/kWh = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

\$/kW = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

\$/Therm = contracted unit price for natural gas at each location as per Article 6 of this Exhibit C

$\$S$  = Total annual cost savings

#### 4.2.3 Chiller Replacement

**Location(s):** City Hall

**Description**

Energy and cost savings will be achieved by replacing the existing cooling systems with a higher efficiency cooling system. Savings will be verified by comparing the energy intensity (kW/ton<sub>pre</sub>) of the pre-retrofit cooling equipment against the energy intensity (kW/Ton<sub>post</sub>) of the post-retrofit cooling Equipment based on continuous trending chiller.

**Pre-Retrofit Measurements\Calculations:**

$$\begin{aligned} \text{kWh}_{\text{Pre}} &= \text{CHkWh}_{\text{Pre}} + \text{CTkWh}_{\text{Pre}} + \text{CHWPkWh}_{\text{Pre}} = 237,738 \text{ kWh/yr} \\ \text{CHkWh}_{\text{Pre}} &= \text{Occ kW/Ton}_{\text{pre}} * \text{AOHOcc} + \text{Unocc kW/Ton}_{\text{pre}} * \text{AOHUnocc} \\ \text{CTkWh}_{\text{Pre}} &= \text{OccCTkW}_{\text{pre}} * \text{AOHOcc} + \text{UnoccCTkW}_{\text{pre}} * \text{AOHUnocc} \\ \text{CHWPkWh}_{\text{Pre}} &= (\text{CHWP1kW} + \text{CHWP2kW}) * \text{AOHOcc} + (\text{CHWP1kW} + \text{CHWP2kW}) * \text{AOHUnocc} \end{aligned}$$

Where:

$\text{kWh}_{\text{pre}}$  = Pre-Retrofit electric consumption of chiller plant (kWh/yr) based on the operating parameters shown in Table 4.2.3.1

$\text{CHkWh}_{\text{Pre}}$  = Pre-Retrofit electric consumption of the existing chillers (kWh/yr) = 140,448 kWh/yr

$\text{Occ kW/Ton}_{\text{pre}}$  = Pre-retrofit chiller efficiency occupied per Table 4.2.3.1

$\text{AOHOcc}$  = Annual Occupied Operating Hours per Table 4.2.3.1

$\text{Unocc kW/Ton}_{\text{pre}}$  = Pre-retrofit unoccupied chiller efficiency per Table 4.2.3.1

$\text{AOHUnocc}$  = Annual Unoccupied Operating Hours per Table 4.2.3.1

$\text{CTkWh}_{\text{Pre}}$  = Pre-Retrofit electric consumption of the cooling tower fan (kWh/yr) = 3,477 kWh/yr

$\text{OccCTkW}_{\text{pre}}$  = Cooling Tower Fan occupied electric demand per Table 4.2.3.1

$$\text{OccCTkW}_{\text{pre}} = \text{CTFull LoadkW} * \text{Occ}\% \text{Cap}^3 * \text{CHWTMin} / \text{CHWST}_{\text{pre}}$$

$\text{CTFull LoadkW}$  = Electric demand of the cooling tower fan at full load = 14.92 kW

$\text{Occ}\% \text{Cap}_{\text{Pre}}$  = Occupied percent capacity on chiller plant per Table 4.2.3.1

$\text{CHWTMin}$  = 70°F

$\text{OccCHWST}$  = Occupied chilled water system temp per Table 4.2.3.1

$\text{UnoccCTkW}_{\text{pre}}$  = Cooling Tower Fan unoccupied electric demand per Table 4.2.3.1

$$\text{UnoccCTkW}_{\text{pre}} = \text{CTFull LoadkW} * \text{Unocc}\% \text{Cap}^3 * \text{CHWTMin} / \text{CHWST}_{\text{pre}}$$

$\text{Unocc}\% \text{Cap}$  = Occupied percent capacity on chiller plant = 20%

$\text{CHWPkWh}_{\text{Pre}}$  = Pre-Retrofit electric consumption of the chilled water pumps (kWh/yr) = 93,813 kWh/yr



CHWP1kW = Chilled water pump 1 electric demand = 5.595 kW

CHWP2kW= Chilled water pump 2 electric demand = 7.460 kW

**Table 4.2.3.1 - Pre-retrofit Chilled Water Plant Operating Parameters**

OAT Bin	Annual Occupied Operating Hours (AOHOcc)	Pre-Retrofit Chilled Water System Temp	Pre-retrofit Occ % Capacity	Pre-Retrofit Chiller Plant kW/ Ton	Pre-Retrofit CT kW Occ	Annual Unocc Operating Hours (AOHUnocc)	Post-Retrofit Chiller Plant kW/ Ton	Pre-Retrofit CT kW Unocc
97.5	2	85	80%	0.839	6.29	1	0.945	0.098
92.5	9	85	80%	0.839	6.29	5	0.945	0.098
87.5	42	85	70%	0.864	4.21	25	0.945	0.098
82.5	171	85	70%	0.864	4.21	106	0.945	0.098
77.5	303	85	60%	0.816	2.65	219	0.945	0.098
72.5	457	85	50%	0.764	1.54	424	0.945	0.098
67.5	676	85	30%	0.893	0.33	976	0.945	0.098
62.5	851	80	30%	0.804	0.35	1,337	0.847	0.104
57.5	555	80	20%	0.847	0.10	1,027	0.847	0.104

**Post-Retrofit Measurements\Calculations:**

$$kWh_{Pre} = CHkWh_{Post} + CTkWh_{Post} + CHWPkWh_{Pre}$$

$$CHkWh_{Post} = kW/Ton_{Post} * AOHOcc$$

$$CTkWh_{Pre} = OccCTkW_{Post} * AOHOcc$$

Where:

$kW/Ton_{post}$  = Post-retrofit chiller plant efficiency based on continuous trending of the chiller plant

$OccCTkW_{post}$  = Post-retrofit cooling tower fan occupied electric demand per Table 4.2.3.2

$$CTkW_{Post} = CTFull LoadkW * Occ\%Cap_{Post}^3 * CHWTMin / CHWST_{Post}$$

**Table 4.2.3.2 - Post-retrofit Chilled Water Plant Operating Parameters**

OAT Bin	Annual Occupied Operating Hours (AOHOcc)	Post-Retrofit Chilled Water System Temp	Post-Retrofit Occ % Capacity	Post-Retrofit CT kW Occ
97.5	2	80	80%	6.68
92.5	9	78	80%	6.86
87.5	42	77	70%	4.65
82.5	171	76	70%	4.71
77.5	303	75	60%	3.01
72.5	457	73	60%	3.09
67.5	676	70	60%	3.22
62.5	851	69	20%	0.12
57.5	555	68	20%	0.12

**Savings Calculations:**

**Energy (kWh) Savings:**

$$\text{kWh}_s = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

**Formulas for Cost Savings:**

$$\$_S = \text{kWh}_s \times \$/\text{kWh}_x$$

Where:

$\$_S$  = annual cost savings

$\text{kWh}_s$  = annual Electric savings (kWh/yr)

$\$/\text{kWh}_x$  = electricity unit cost per kWh as defined for location 'x' in Article 6 of this Exhibit C

4.2.4 Boiler Replacement

**Location(s):** Police Department

**Overview:**

Energy savings expected from an efficiency increase by upgrading existing boilers to condensing hot water boilers. These savings will be verified by a post-retrofit combustion efficiency based on manufacturer's specifications of installed equipment.

**Pre-retrofit measurements\Calculations:**

$$\text{Fuel}_{\text{pre}} = (\text{Capacity} * \text{AOH} * \%PF) / (\eta_{\text{Pre,CE}} * \eta_D) / \text{HVNG}$$

Where:

$\text{Fuel}_{\text{pre}}$  = Pre-retrofit natural gas usage (Therms/yr) = 8,356 Therms/yr

Capacity = Boiler Capacity = 1,260 Mbh

AOH = Annual operating hours = 630 hours/yr

%PF = Part load factor = 75%

$\eta_{\text{Pre,CE}}$  = Pre-retrofit combustion efficiency = 75 %

$\eta_D$  = Pre-retrofit distribution efficiency = 95 %

HVNG = High heating value of natural gas = 100 <sup>MBtu</sup>/Therm

**Post-retrofit measurements\Calculations:**

$$\text{Fuel}_{\text{post}} = (\text{Capacity} * \text{AOH} * \%PF) / (\eta_{\text{Post,CE}} * \eta_D) / \text{HVNG}$$

Where:

$\text{Fuel}_{\text{post}}$  = Post-retrofit natural gas usage (Therms/yr)

$\eta_{\text{Post,CE}}$  = average combustion efficiency based on manufacturer's specifications

**Savings Calculations:**

**Energy Savings (Therms/yr):**

$$\text{Fuels}_s = \text{Fuel}_{\text{pre}} - \text{Fuel}_{\text{post}}$$

**Cost Savings (\$/yr):**

$$\$_S = \text{Fuels} * \$/\text{Therm}_x$$

Where:

Fuels = annual fuel (Therms/yr) savings

$\$/\text{Therm}_x$  = unit price for natural gas at location 'x' as per Article 6 of this Exhibit C

#### 4.2.5 Refurbish AHUs – City Hall AHU-1

**Location(s):** City Hall

**Overview:**

Siemens will refurbish AHU-1 at City Hall as described in Exhibit A. Energy savings results from varying the supply and return fans speed from constant volume to variable volume. Savings will be verified by continuously trending the supply and return fan electric demand (kW) in conjunction with fan speed and outdoor air damper position.

**Pre-Retrofit Measurement/Calculations:**

$$\text{kWh}_{\text{pre}} = \text{Supply kWh}_{\text{pre}} + \text{Return kWh}_{\text{pre}}$$

$$\text{Supply kWh}_{\text{post}} = \sum [\text{Supply kW}_{\text{pre}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{post}} = \sum [\text{Return kW}_{\text{pre}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{pre}}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Supply kWh}_{\text{pre}}$  = Pre-retrofit supply fan annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Supply kW}_{\text{pre}}$  = Pre-retrofit supply fan electric demand (kW) = 31.32 kW

AOH = Annual operating hours per OAT Bin as shown in Table 4.2.5.1

$\text{Return kWh}_{\text{post}}$  = Pre-retrofit return fan annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Return kW}_{\text{pre}}$  = Pre-retrofit return fan electric demand (kW) = 7.10 kW

**Table 4.2.5.1 - Pre-retrofit Electric Consumption (City Hall AHU-1)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh	Pre-Retrofit Return Fan kWh	Pre-Retrofit Total kWh
97.5	2	60	14	74
92.5	9	282	64	346
87.5	42	1,319	299	1,618
82.5	171	5,371	1217	6,588
77.5	303	9,486	2150	11,636
72.5	457	14,320	3246	17,566
67.5	676	21,183	4802	25,985
62.5	851	26,652	6041	32,693
57.5	555	17,383	3940	21,323
52.5	293	9,174	2079	11,253

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47.5	116	3,629	823	4,452
42.5	35	1,087	246	1,334
37.5	9	287	65	352
<b>Total</b>	<b>3,520</b>	<b>110,233</b>	<b>24,986</b>	<b>135,219</b>

**Post-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{post}} = \text{Supply kWh}_{\text{post}} + \text{Return kWh}_{\text{post}}$$

$$\text{Supply kWh}_{\text{post}} = \sum [\text{Supply kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{post}} = \sum [\text{Return kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{post}}$  = Total post-retrofit annual electric consumption (kWh/yr)

$\text{Supply kWh}_{\text{post}}$  = Post-retrofit supply fan annual electric consumption (kWh/yr)

$\text{Supply kW}_{\text{post}}$  = Post-retrofit average per OAT Bin supply fan electric demand (kW) trended continuously through EMS

$\text{Return kWh}_{\text{post}}$  = Post-retrofit return fan annual electric consumption (kWh/yr)

$\text{Return kW}_{\text{post}}$  = Post-retrofit average per OAT Bin return fan electric demand (kW) trended continuously through EMS

**Savings Calculations:****Energy Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

Where:

$\text{kWh}_S$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$$\text{\$}_S = \text{kWh}_S * \text{\$/kWh}$$

Where:

$\text{\$}_S$  = Total annual cost savings

$\text{\$/kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

## 4.2.6 Refurbish AHUs – City Hall MZ-1

**Location(s):** City Hall**Overview:**

Siemens will refurbish MZ-1 at City Hall as described in Exhibit A. Energy savings results from scheduling MZ-1 from 24/7 operation to 6am to 7pm (M-Thurs and every other Friday) and Holiday scheduling. Savings will be verified by continuously trending the supply fan status. The annual operating hour bin model will be re-run with the actual schedules observed during each Annual Period.

Post-retrofit, if contracted baseline schedules for this equipment, as established in Article 7 of this Exhibit C, are modified by the CLIENT and result in a loss of energy savings, the Guaranteed Savings for this FIM will be deemed achieved.

**Pre-Retrofit Measurement\Calculations:**

$$kWh_{pre} = \Sigma[\text{Supply kW} * AOH_{Pre}]_{OAT\ BIN}$$

Where:

$kWh_{pre}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.6.1

Supply kW = supply fan electric demand (kW) = 5.87 kW

$AOH_{Pre}$  = Pre-retrofit annual operating hours per OAT Bin as shown in Table 4.2.6.1

**Table 4.2.6.1 - Pre-retrofit Electric Consumption (City Hall AHU-2)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh
97.5	3	18
92.5	14	82
87.5	67	393
82.5	277	1,627
77.5	522	3,065
72.5	881	5,174
67.5	1652	9,701
62.5	2188	12,849
57.5	1582	9,290
52.5	964	5,661
47.5	432	2,537
42.5	140	822
37.5	38	223
<b>Total</b>	<b>8,760</b>	<b>51,442</b>

**Post-Retrofit Measurement\Calculations:**

$$kWh_{post} = \Sigma[\text{Supply kW} * AOH_{Post}]_{OAT\ BIN}$$

Where:

$kWh_{post}$  = Total post-retrofit annual electric consumption (kWh/yr)

$AOH_{Post}$  = Post-retrofit annual operating hours per OAT Bin modeled by continuously trending supply fan status to determine actual schedule

**Savings Calculations:**

**Energy Savings (kWh/yr):**

$$kWh_S = kWh_{pre} - kWh_{post}$$

Where:

$kWh_S$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$$\$_S = \text{kWh}_S * \$/\text{kWh}$$

Where:

$\$_S$  = Total annual cost savings

$\$/\text{kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

## 4.2.7 Refurbish AHUs – Police Department AH-1

**Location(s):** Police Department

**Overview:**

Siemens will refurbish AH-1 at the Police Department as described in Exhibit A. Energy savings results from varying the supply and return fans speed from constant volume to variable volume. Savings will be verified by continuously trending the supply and return fan electric demand (kW) in conjunction with fan speed and outdoor air damper position.

**Pre-Retrofit Measurement/Calculations:**

$$\text{kWh}_{\text{pre}} = \text{Supply kWh}_{\text{pre}} + \text{Return kWh}_{\text{pre}}$$

$$\text{Supply kWh}_{\text{pre}} = \sum [\text{Supply kW}_{\text{pre}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{pre}} = \sum [\text{Return kW}_{\text{pre}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{pre}}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Supply kWh}_{\text{pre}}$  = Pre-retrofit supply fan annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Supply kW}_{\text{pre}}$  = Pre-retrofit supply fan electric demand (kW) = 19.57 kW

AOH = Annual operating hours per OAT Bin as shown in Table 4.2.7.1

$\text{Return kWh}_{\text{pre}}$  = Pre-retrofit return fan annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Return kW}_{\text{pre}}$  = Pre-retrofit return fan electric demand (kW) = 1.87 kW

**Table 4.2.7.1 - Pre-retrofit Electric Consumption (PD AHU-1)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh	Pre-Retrofit Return Fan kWh	Pre-Retrofit Total kWh
97.5	3	59	6	64
92.5	14	274	26	300
87.5	67	1,311	125	1,437
82.5	277	5,422	517	5,939
77.5	522	10,218	974	11,192
72.5	881	17,245	1,644	18,889
67.5	1652	32,337	3,082	35,419
62.5	2188	42,829	4,082	46,912

57.5	1582	30,967	2,952	33,919
52.5	964	18,870	1,799	20,669
47.5	432	8,456	806	9,262
42.5	140	2,740	261	3,002
37.5	38	744	71	815
<b>Total</b>	<b>8,760</b>	<b>171,474</b>	<b>16,344</b>	<b>187,818</b>

**Post-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{post}} = \text{Supply kWh}_{\text{post}} + \text{Return kWh}_{\text{post}}$$

$$\text{Supply kWh}_{\text{post}} = \sum [\text{Supply kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{post}} = \sum [\text{Return kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{post}}$  = Total post-retrofit annual electric consumption (kWh/yr)

$\text{Supply kWh}_{\text{post}}$  = Post-retrofit supply fan annual electric consumption (kWh/yr)

$\text{Supply kW}_{\text{post}}$  = Post-retrofit average per OAT Bin supply fan electric demand (kW) trended continuously through EMS

$\text{Return kWh}_{\text{post}}$  = Post-retrofit return fan annual electric consumption (kWh/yr)

$\text{Return kW}_{\text{post}}$  = Post-retrofit average per OAT Bin return fan electric demand (kW) trended continuously through EMS

**Savings Calculations:****Energy Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

Where:

$\text{kWh}_S$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$$\text{\$}_S = \text{kWh}_S * \text{\$/kWh}$$

Where:

$\text{\$}_S$  = Total annual cost savings

$\text{\$/kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

## 4.2.8 Siemens Design Controls System – Holiday Scheduling

**Location(s):**

Building	# of Units	Unit Numbers
Juvenile Justice	4	AC-1, AC-2, AC-3, AC-4
Property & Evidence Building	4	AC-1, F1, F-2, F-3
Fire Station #5	2	AC-1, AC-2

Fire Station #7	1	AC-1
Public works	14	AC 1-14
Buena Clinton Youth & Family Center	8	SHP 1-2, 4, 5A-5B HP 7-8,10
Courtyard Center/ Activity Center	5	Courtyard AC-1, AC-2, AC-3, AC-4, Activity AC-1
Police Annex	4	AC-1, AC-2, AC-3, AC-4
Magnolia Park Neighborhood Center	2	AC-1, AC-2
Festive Amphitheatre	2	AC-1, AC-2
Teen Center	1	AC-1
Community Service Center	1	AC-1

**Overview:**

Siemens will install a new Siemens Desigo Automation System in the locations above to control the units listed in Table 4.2.8.1. Currently the units run 5 days a week all year, except for the Police Annex which operates 7 days a week. Siemens will implement a holiday schedule, shutting the units off for 14 days a year. Savings will be verified by continuously trending unit status and verifying the units shut down for 14 week days per year.

**Pre-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{pre}} = \sum [\text{kW} * \text{AOH}_{\text{Pre}}]_{\text{Unit}}$$

Where:

$\text{kWh}_{\text{pre}}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.8.1 summed over all equipment for each building

kW = Fan motor electric demand (kW) as shown in Table 4.2.8.1 for each piece of equipment

$\text{AOH}_{\text{Pre}}$  = Annual pre-retrofit operating hours per piece of equipment as shown in Table 4.2.8.1

**Table 4.2.8.1 - Pre-retrofit Operating Parameters**

Location	Equipment	Pre-Retrofit Electric Demand ( $\text{kW}_{\text{Pre}}$ )	Pre-Retrofit Annual Operating Hours ( $\text{AOH}_{\text{Pre}}$ )	Pre-Retrofit Electric Consumption ( $\text{kWh}_{\text{Pre}}$ )
Public works	AC 1	4.8	1,200	5,760
	AC-2	6	1,200	7,200
	AC-3	6	1,200	7,200
	AC-4	4.8	1,200	5,760
	AC-5	4.8	1,200	5,760
	AC-6	3.39	1,183	4,011
	AC-7	3.39	1,183	4,011
	AC-8	5.76	1,205	6,938
	AC-9	4.07	1,212	4,932



	AC-10	3.6	1,200	4,320
	AC-11	3.6	1,200	4,320
	AC-12	3.6	1,200	4,320
	AC-13	3.6	1,200	4,320
	AC-14	3.6	1,200	4,320
Buena Clinton Youth & Family Center	SHP 1	0.1	1200	112
	SHP 2	0.1	1200	179
	SHP 4	0.1	1200	179
	SHP 5A	0.1	1200	179
	SHP 5B	3.0	1200	3,600
	SHP 7	1.5	1200	1,800
	SHP 8	4.0	1200	4,800
	SHP 10	4.0	1200	4,800
Courtyard Center	AC-1	2.4	1100	2,640
	AC-2	6.0	1100	6,600
	AC-3	6.0	1100	6,600
	AC-4	6.0	1100	6,600
Police Annex	AC 1	4.0	1100	4,400
	AC-2	4.0	1100	4,400
	AC-3	4.0	1100	4,400
	AC-4	4.0	1100	4,400
Magnolia Park Neighborhood Center	AC-1	4.0	1210	4,814
	AC-2	3.7	1316	4,897
Festive Amphitheatre	AC-1	5.6	900	5,040
	AC-2	5.6	900	5,040
Teen Center (Eastgate Park)	AC-1	5.76	880	5,068
Community Service Center (Westgrove Park)	AC-1	3.4	764	2,621

**Post-Retrofit Measurement Calculations:**

$$kWh_{post} = \sum [kW * AOH_{Post}]_{Unit}$$

Where:

$kWh_{post}$  = Total post-retrofit annual electric consumption (kWh/yr) summed over all equipment for each building

$AOH_{Post}$  = Annual post-retrofit operating hours per piece of equipment determined by continuously trending equipment status

**Savings Calculations:****Energy Savings (kWh/yr):**

$$kWh_S = kWh_{pre} - kWh_{post}$$

**Cost Savings(\$/yr):**

$$\$_S = kWh_S * \$/kWh$$

Where:

$kWh_S$  = Total annual electric savings (kWh/yr)

$\$_S$  = Total annual cost savings

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

**4.2.9 Plug Load Management**

**Location(s):** City Hall, Community Meeting Center/Senior Center, Public Works, Buena Client

**Overview:**

A plug load management system will be installed to reduce unnecessary electric usage when electronic equipment is not in use. Energy savings will be verified by post-retrofit logging of the runtime of a sample of equipment through the use of the energy monitoring controls during the first annual period.

**Pre-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{pre}} = \sum (\text{Qty}_{,n} * (W_{,n} / 1,000 \text{ W/kW}) * \text{AOH}_{\text{pre},n})$$

Where:

$\text{kWh}_{\text{pre}}$  = Pre-retrofit electric consumption summed over all equipment per building as shown in Table 4.2.9.1

Qty = Quantity of equipment as shown in Table 4.2.9.1

W = Equipment power as shown in Table 4.2.9.1

$\text{AOH}_{\text{pre}}$  = Pre-retrofit annual operating hours as shown in Table 4.2.9.1 (hours/year)

**Table 4.2.9.1 – Plug Load Parameters**

Equipment (n)	Electric Demand (W)	Quantity (Qty)			
		City Hall	Comm Center/ Senior Center	Public Works / Municipal Service	Buena Client
Projector	8	2	0	0	1
Smartboard	6	0	0	0	0
Proj/Smbrd	12	0	0	0	0
Amp	8	0	0	0	0
Chrg Cart	35	0	0	0	0
S Print	11	0	0	0	0
M Print	20	25	4	15	2
L Print/Copy	40	4	1	2	1
TV/Mon	8	0	2	0	0
Snack Vend	40	1	1	1	0
Soda Vend	320	1	1	1	0
Lg Coffee	56	1	2	1	1
H/C Water Disp.	75	4	2	2	0
Pre-Retrofit Annual Operating Hours ( $\text{AOH}_{\text{pre}}$ )		2,250	4,250	2,500	2,250
Pre-retrofit Electric consumption ( $\text{kWh}_{\text{pre}}$ )		12,194	6,640	8,287	1,261

**Post-Retrofit Measurement Calculations:**

$\text{AOH}_{\text{post}}$  = Post-retrofit annual operating hours, based on runtime logs collected from post-retrofit energy monitoring controls

$$\text{kWh}_{\text{post}} = \sum (\text{Qty}_{,n} * (W_{,n} / 1,000 \text{ W/kW}) * \text{AOH}_{\text{post},n})$$

Where:

$kWh_{post}$  = Post-retrofit electric consumption (kWh)

**Savings Calculations:**

**Energy Savings (kWh/yr):**

$kWh_S = kWh_{pre} - kWh_{post}$

Where:

$kWh_S$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$\$S = kWh_S * \$/kWh$

Where:

$\$S$  = Total annual cost savings

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

- 4.3 **Option B - Retrofit Isolation: All Parameter Measurement - N/A**
- 4.4 **Option C - Whole Facility - N/A**
- 4.5 **Option D – Calibrated Simulation - N/A**
- 4.6 **Option E - Stipulated-Energy/Utility Savings - N/A**

## Article 5: Baseline Data

- 5.1 The year(s) selected as the Baseline Period starts on 11/3/2016 and ends on 11/2/2017. Table 5.1 outlines the utility consumption that occurred during this Baseline Period. This Baseline Period's Facility utility consumption will be used as the reference for comparing the Facility's utility consumption during the Performance Guarantee Period in order to determine the Annual Realized Savings.

**Table 5.1 – Baseline Utility Consumption**

Building/ Park	Annual Electric [kWh]	Annual Electric [kW]	Annual Natural Gas [Therm]
City Hall	821,519	235	1911
PD/ Fire Station #1/ Juvenile Justice/ Evidence	833,071	201	16276
CMC	399,641	171	6387
Public Works	343,666	161	8611
Gem Theater	72,488	61	1393
Police Annex	38,889	24	148
Festive Amphitheater	26,008	58	66
Magnolia Park-Building	35,140	20	420
Magnolia Park-Exterior	70,619	59	0
Courtyard	73,372	85	857
Sports & Rec/ Garden Grove Park/ Atlantis	403,595	468	Meter could not be located
Fire Station #2	46,801	13	925
Fire Station #3	48,035	13	916
Fire Station #4	40,336	12	594
Fire Station #5	54,007	24	687
Fire Station #7	33,484	13	380
Buena Clinton	51,213	61	No gas meter
Gutosky Park	11,928	6	N/A
Faylane Park	12,817	6	N/A
Eastgate Park M#1	81,519	37	5168
Eastgate Park M#2	8,206	11	N/A
Woodbury Park	98,101	34	11376
Westgrove Park	19,765	21	N/A
Regional Library	59,075	19	N/A
Champan Sports Complex	122,122	188	133308
<b>Total</b>	<b>3,805,417</b>	<b>2,001</b>	<b>189,423</b>

- 5.2 The operating practices during the Baseline Period determine the utility consumption shown in Table 5.1. This data indicates the operating characteristics that were in effect during the Baseline Period. The Guaranteed Savings provided under this Agreement are based on the efficiencies gained by implementing the Work and implementing the Contracted Baseline in Article 7 of this Exhibit C.

**Table 5.2.1 – Baseline Package Units Parameters**

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	Building	Eastgate Park Teen Center	Fire Station 5	GEM	Magnolia Park
	Unit	AC-1 5 Ton	AC-1 & AC-2 5 Ton	AC-3 & AC-5 6 Ton	AC-1 3 Ton
		EXISTING	EXISTING	EXISTING	EXISTING
1.	Economizer	None	None	None	None
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)				
	Low Limit (°F)				
	High Limit (°F)				
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.57	1.56	1.33	1.36
3.	Supply Air Flow (CFM)	2,000	2,000	2,400	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%	85.00%
5.	Gas Furnace - Thermal Efficiency (%)	78.60%	78.60%	77.20%	78.70%
	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
	UNOCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Sat/Sun 7am-6pm	24-7	Mon-Fri 4pm-9pm; Sat/Sun 10am-11pm	Mon-Fri 7am-7pm

Table 5.2.2 – Baseline Package Units Parameters

	Building	Magnolia Park	Public Works	Public Works	Public Works
	Unit	AC-2 3 Ton	AC-6 & AC-7 3 Ton	AC-8 5 Ton	AC-9 3 Ton
		EXISTING	EXISTING	EXISTING	EXISTING
1.	Economizer	None	None	None	None
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)				
	Low Limit (°F)				
	High Limit (°F)				
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.29	1.36	1.36	1.36
3.	Supply Air Flow (CFM)	1,200	1,200	2,000	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%	85.00%
5.	Gas Furnace - Thermal Efficiency (%)	81.00%	78.70%	78.00%	78.70%

	Heat Pump - HCOP (rated at 47°F OSA)				
<b>6.</b>	<b>OCCUPIED</b>				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
	<b>UNOCCUPIED</b>				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
<b>7.</b>	<b>OSA Damper Closed at Night?</b>	No	No	No	No
<b>8.</b>	<b>Fan Operation at Night?</b>	Cycling	Cycling	Cycling	Cycling
<b>9.</b>	<b>CO2 Sensors?</b>	No	No	No	No
<b>10.</b>	<b>Schedule</b>	Mon-Fri 7am-7pm	Mon-Fri 5am-6pm	Mon-Fri 5am-6pm	Mon-Fri 5am-6pm

**Table 5.2.3 – Baseline Package Units Parameters**

	Building	Sports and Rec	Sports and Rec	Sports and Rec
	Unit	AC-1 & AC-2 25 Ton	AC-3 10 Ton	AC-4 8 Ton
		<b>EXISTING</b>	<b>EXISTING</b>	<b>EXISTING</b>
<b>1.</b>	<b>Economizer</b>	None	None	None
	Minimum OSA %	20%	20%	20%
	Mixed Air Setpoint (°F)			
	Low Limit (°F)			
	High Limit (°F)			
	Enthalpy Limit (Btu/lb)			
<b>2.</b>	<b>kW /Ton (of Compressor &amp; Cond Fan)</b>	1.39	1.37	1.43
<b>3.</b>	<b>Supply Air Flow (CFM)</b>	10,000	4,000	3,400
<b>4.</b>	<b>Supply Fan Control</b>	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%
<b>5.</b>	<b>Gas Furnace - Thermal Efficiency (%)</b>	82.00%	78.40%	78.40%
	Heat Pump - HCOP (rated at 47°F OSA)			
<b>6.</b>	<b>OCCUPIED</b>			
	Cooling Setpoint (°F)	70	70	70
	Heating Setpoint (°F)	70	70	70
	<b>UNOCCUPIED</b>			
	Cooling Setpoint (°F)	70	70	70
	Heating Setpoint (°F)	70	70	70
<b>7.</b>	<b>OSA Damper Closed at Night?</b>	No	No	No
<b>8.</b>	<b>Fan Operation at Night?</b>	Cycling	Cycling	Cycling
<b>9.</b>	<b>CO2 Sensors?</b>	No	No	No
<b>10.</b>	<b>Schedule</b>	6am-11pm	6am-11pm	6am-11pm

**Table 5.2.4 – Baseline AHU schedule**

<b>AHU</b>	<b>Schedule</b>
City Hall AHU-1	Monday-Thursday & every other Friday: 5am – 9pm
City Hall AHU-2	24-7
Police Department AHU-1	24-7

The currently air handlers at the City Hall and Police Department do not have economizer, supply air reset and static pressure reset.

5.3 Applicable codes - Federal, State, County or Municipal codes or regulations are applicable to the use and operation of the Facility. SIEMENS will maintain the current level of Facility compliance relative to applicable codes unless specifically outlined to the contrary below. Unless specifically set forth in the Scope of Work and Services, Exhibit A, nothing herein should be construed as to require SIEMENS to provide additional work or services in the event that the current applicable code or regulation is modified.

5.3.1 Current code compliance (identify the applicable code citation):  
a. California Title 24

## Article 6: Utility Rate Structures and Escalation Rates

6.1 Utility costs used for Savings calculations will be based on the utility rates and Escalation Rates, as provided in the table(s) below. Each Escalation Rate will be applied annually to the utility rate.

**Table 6.1.1 Electric Utility Rates**

Building	Weighted Rate Average/ Blended Rate	Rate Schedule	Electric	
			\$/kWh	\$/kW
City Hall	24/7 Operation - HVAC	TOU-GS-3B	\$0.071 /kWh	\$19.84 /kW
City Hall	Exterior Lights	TOU-GS-3B	\$0.065 /kWh	\$18.60 /kW
City Hall	Interior Lights [5:00AM - 11:00PM M-F]	TOU-GS-3B	\$0.078 /kWh	\$21.17 /kW
City Hall	HVAC (Non24/7) [4:30AM - 9:00PM M-F]	TOU-GS-3B	\$0.079 /kWh	\$21.27 /kW
CMC	24/7 Operation - HVAC	TOU-GS-2B	\$0.072 /kWh	\$17.42 /kW
CMC, Library Parking, Credit Union Park	Exterior Lights (7:00pm- 9:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.22 /kW
CMC	Interior Lights [6:00AM - 7:00PM M-F], (6:00 am to midnight S, S)	TOU-GS-2B	\$0.076 /kWh	\$18.18 /kW
PD-FS#1-JJ	Exterior Lights (6:00pm- 7:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.25 /kW
PD-FS#1-JJ	24/7 Operation HVAC; Interior Lighting	TOU-GS-2B	\$0.072 /kWh	\$17.42 /kW
Public Works	HVAC - Estimated Hours of Operation: M-S: 5:30 am to 8:30 pm	TOU-GS-2B	\$0.076 /kWh	\$18.19 /kW
Public Works	Exterior Lights (7:00pm- 6:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.23 /kW
Public Works	Interior Lights [6:00AM - 7:00PM M-F]	TOU-GS-2B	\$0.083 /kWh	\$19.45 /kW
GEM	Interior Lights + HVAC - Sat/Sun 9:30am-10:30pm; Thursday/Friday 5:30pm- 10:30pm; Mon/Tues/Wed 2:30pm-11pm	TOU-GS-2A	\$0.102 /kWh	\$15.89 /kW
GEM	Exterior Lights (4:00pm- 6:00 am)	TOU-GS-2A	\$0.082 /kWh	\$15.89 /kW
Police Annex	Exterior Lights (6:00pm- 7:00 am)	TOU-GS2B	\$0.066 /kWh	\$16.25 /kW
Police Annex	24/7 Operation HVAC; Interior Lighting	TOU-GS2B	\$0.072 /kWh	\$17.42 /kW
Festive Amp	Exterior Lights (7:00pm- 9:00 am)	TOU-GS2B	\$0.066 /kWh	\$16.22 /kW
Festive Amp	Interior Lights [6:00AM - 7:00PM M-F], (6:00 am to midnight S, S)	TOU-GS2B	\$0.076 /kWh	\$18.18 /kW



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Magnolia Park-Building	Blended Rate	TOU-GS1B	\$0.179 /kWh	
Magnolia Park-Exterior	Blended Rate	AL-2	\$0.079 /kWh	
Regional Library	Blended Rate	TOU-GS1B	\$0.128 /kWh	
Courtyard / Village Green Park	Blended Rate	AL-2	\$0.094 /kWh	
FS#2	Blended Rate	TOU-GS1B	\$0.126 /kWh	
FS#3	Blended Rate	TOU-GS1A	\$0.153 /kWh	
FS#4	Blended Rate	TOU-GS1A	\$0.155 /kWh	
FS#5	Blended Rate	TOU-GS2B	\$0.212 /kWh	
FS#7	Blended Rate	TOU-GS1A	\$0.157 /kWh	
Faylane Park	Blended Rate	AL-2	\$0.082 /kWh	
Eastgate Park M#1	Blended Rate	AL-2	\$0.090 /kWh	
Eastgate Park M#2	Blended Rate	AL-2	\$0.119 /kWh	
Woodbury Park M#1 and M#2	Blended Rate	AL-2	\$0.085 /kWh	
Westgrove Park	Blended Rate	AL-2	\$0.083 /kWh	
Sports and Rec/ Garden Grove Park/ Atlantis	Blended Rate	AL-2	\$0.096 /kWh	
Chapman Sports Complex	Blended Rate	AL-2	\$0.070 /kWh	
Buena Clinton	Blended Rate	TOU-GS2B	\$0.319 /kWh	
Gutosky Park	Blended Rate	AL-2	\$0.084 /kWh	

Table 6.1.2 Gas Utility Rates		Gas	
Building	Tier Level	Rate Schedule	\$/Therm
City Hall	Tier 2	GN-10	\$0.72 /Therm
PD/ Fire Station #1/ Juvenile Justice/ Evidence	Tier 2	GN-10	\$0.72 /Therm
CMC	Tier 2	GN-10	\$0.72 /Therm
Public Works	Tier 2	GN-10	\$0.72 /Therm
Gem Theater	Tier 2	GN-10	\$0.72 /Therm
Police Annex	N/A	GN-10	\$0.96 /Therm
Festive Amphitheater	Tier 2	GN-10	\$0.72 /Therm
Magnolia Park-Building	Tier 2	GN-10	\$1.31 /Therm
Courtyard	Tier 2	GN-10	\$0.72 /Therm
Sports & Rec/ Garden Grove Park/ Atlantis	N/A	GN-10	\$0.72 /Therm
Fire Station #2	Tier 2	GN-10	\$0.72 /Therm
Fire Station #3	Tier 2	GN-10	\$0.72 /Therm
Fire Station #4	Tier 2	GN-10	\$0.72 /Therm

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Fire Station #5	Tier 2	GN-10	\$0.72 /Therm
Fire Station #7	Tier 2	GN-10	\$1.32 /Therm
Buena Clinton	N/A	N/A	no gas meter
Eastgate Park M#1	Tier 2	GN-10	\$0.72 /Therm
Woodbury Park	Tier 2	GN-10	\$0.72 /Therm

The baseline rate schedules above used in the calculations were those prevailing at the time of execution of this contract escalated by 4%. Energy Escalation Rate: 4.0% per Annual Period thereafter

### 6.2

## Article 7: Contracted Baseline Data

7.1 The following tables detail the Facility operating parameters that are required to be implemented on the Guarantee Date or on such time as agreed upon by the Parties. This specific configuration of Facility operating parameters is the Contracted Baseline and failure of the CLIENT to maintain the Contracted Baseline may result in a Material Change which may require a modification of the Performance Guarantee pursuant to Article 4 of the Agreement.

**Table 7.1.1 Baseline Package Units Parameters**

	Building	Eastgate Park Teen Center	Fire Station 5	GEM	Magnolia Park
	Unit	AC-1 5 Ton	AC-1 & AC- 2 5 Ton	AC-3 & AC- 5 6 Ton	AC-1 3 Ton
		<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>
1.	Economizer	Temperature	Temperature	Temperature	Temperature
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)	57	57	57	57
	Low Limit (°F)	50	50	50	50
	High Limit (°F)	60	60	60	60
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.02	1.02	1.14	1.00
3.	Supply Air Flow (CFM)	2,000	2,000	2,400	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	90.00%	90.00%	90.00%	90.00%
5.	Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%	85.00%
	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69.5	69.5	69.5	69.5
	UNOCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69	69	69	69
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Sat/Sun 7am-6pm; with no Holidays	24-7	Mon-Fri 4pm-9pm; Sat/Sun 10am-11pm; with no Holidays	Mon-Fri 7am-7pm; with no Holidays

**Table 7.1.2 Baseline Package Units Parameters**

	Building	Magnolia Park	Public Works	Public Works	Public Works
	Unit	AC-2 3 Ton	AC-6 & AC- 7 3 Ton	AC-8 5 Ton	AC-9 3 Ton
		<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>
1.	Economizer	Temperature	Temperature	Temperature	Temperature
	Minimum OSA %	20%	20%	20%	20%

# Exhibit C – Performance Assurance

	Mixed Air Setpoint (°F)	57	57	57	57
	Low Limit (°F)	50	50	50	50
	High Limit (°F)	60	60	60	60
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	0.98	1.02	1.02	1.02
3.	Supply Air Flow (CFM)	1,200	1,200	2,000	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	90.00%	90.00%	90.00%	90.00%
5.	Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%	85.00%
	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69.5	69.5	69.5	69.5
	UNOCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69	69	69	69
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Mon-Fri 7am-7pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays

**Table 7.1.3 Baseline Package Units Parameters**

	Building	Sports and Rec	Sports and Rec	Sports and Rec
	Unit	AC-1 & AC-2 25 Ton	AC-3 10 Ton	AC-4 8 Ton
		<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>
1.	Economizer	Temperature	Temperature	Temperature
	Minimum OSA %	20%	20%	20%
	Mixed Air Setpoint (°F)	57	57	57
	Low Limit (°F)	50	50	50
	High Limit (°F)	60	60	60
	Enthalpy Limit (Btu/lb)			
2.	kW /Ton (of Compressor & Cond Fan)	1.20	1.13	1.13
3.	Supply Air Flow (CFM)	10,000	4,000	3,400
4.	Supply Fan Control	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%
	Motor Efficiency (%)	90.00%	90.00%	90.00%
5.	Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%
	Heat Pump - HCOP (rated at 47°F OSA)			
6.	OCCUPIED			
	Cooling Setpoint (°F)	74	74	74
	Heating Setpoint (°F)	69.5	69.5	69.5
	UNOCCUPIED			
	Cooling Setpoint (°F)	74	74	74
	Heating Setpoint (°F)	69	69	69
7.	OSA Damper Closed at Night?	No	No	No

8.	Fan Operation at Night?	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No
10.	Schedule	6am-11pm; with no Holidays	6am-11pm; with no Holidays	6am-11pm; with no Holidays

Holiday: New year's day, Martin Luther King, Presidents day, Memorial day, Independence day, Labor day, Veterans day, (2) thanksgiving day, (5) Christmas

## 7.2 Sequence of Operation City Hall AHU-1

### City Hall

#### System Descriptions

##### AHU-1

Built-up single duct air handler with supply fan w/VFD, relief fan w/VFD, enthalpy controlled economizer, chilled water coils (confirm no hot water heating), and outside air/ mixed air/ supply air/ exhaust air damper. 96 VAV boxes with re-heat serving each zone/space with DDC controls.

##### **Supply Fan (AHU-1)**

- Supply fan will be operated by a programmable time clock. Schedules shall be programmed thru the Siemens central building energy management system. Schedule to be programmed as shown in Table 7.2.1. Supply fan shall run based on the table below.
- The supply fan shall vary in speed in response to a static pressure sensor with a 30% minimum speed for ventilation. "Full" speed shall be determined in the field at the time of the air balance, Siemens to coordinate with Mech subcontractor for air balance.
- Minimum air flow will be set based on minimum airflow required for the required ventilation air. Initial supply static air pressure setpoint shall be 1.0" w.c. Perform a static pressure test to determine optimum static pressure set point.

##### **Return Fan (AHU-1)**

- Return fan shall be interlocked with the supply fan. They will also vary speed based on building static pressure. "Full" speed shall be determined in the field at the time of the air balance. Building static pressure setpoint shall be +0.05" w.c. (+/-0.01).

Table 7.2.1: AHU Schedule

AHU	Schedule
AHU-1 & AHU-2	Monday-Thursday & every other Friday: 6am – 7pm

#### **Economizer**

- Economizer shall be based upon outside air dry bulb temperature and relative humidity with both low and high limits.
- When outside air is at the below conditions or less, the economizer cycle shall be enabled

Table 7.2.2: Economizer Temp Parameters

Temp (degrees)	Wet Bulb (degrees)
67.5	61
62.5	57
57.5	53
52.5	49

- When outside air temperature is 2 deg (adjustable) greater than the return air temperature and ambient relative humidity is great than 50%, the economizer cycle shall be disabled. The outside air economizer damper shall be set to minimum.
- When outside air temperature decreases below supply air temperature setpoint (67.5 deg adjustable), the outside air damper shall modulate to maintain desired supply temperature setpoint.

**Cooling/ Supply Air Reset**

- Supply air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, supply temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.2.3: Supply Air Reset Parameters

Return Air Temp	Supply Discharge Temperature
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when outside air temperatures are below 60 degrees.

**Existing VAV Boxes**

- For all VAV boxes heating setpoint shall be 70 degrees and cooling setpoint shall be 74 degrees.
- These setpoints are adjustable from the EMS system only and no controls override shall be available at the room thermostat.

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## 7.3 Sequence of Operation City Hall AHU-2

### City Hall

#### System Descriptions

##### AHU-2

Built-up multizone dual duct constant volume air handler with supply fan only serving four zones (N, S, E, W). No economizer, 100% return air, chilled water coils and hot water coils with 2 heating valves (two stage heating valves 1/3 and 2/3). Dual duct air dampers serve each zone with DDC controls.

##### Supply Fan (AHU-2)

- Supply fan will be operated by a programmable time clock. Schedules shall be programmed thru the Siemens central building energy management system. Schedule to be programmed as shown in Table 1. Supply fan shall run based on the table below.

Table 7.3.1: AHU Schedule

AHU	Schedule
AHU-1 & AHU-2	Monday-Thursday & every other Friday: 6am – 7pm

#### Cold Deck

- Cool deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, cool deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.3.2: Cold Deck Parameters

Return Air Temp	Cool Deck Discharge Temperature
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when cold deck discharge air temperature is satisfied.

#### Hot Deck

- Hot deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, hot deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.3.3: Hot Deck Parameters

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Return Air Temp	Cool Deck Discharge Temperature
30 degrees	105 degrees
70 degrees	75 degrees

- There are 2 stages of heating with 1/3 and 2/3 heating valves. The 1/3 heating water valve shall modulate to maintain hot deck discharge air setpoint, if the temperature cannot be maintained fully open the 1/3 heating valve and modulate the 2/3 heating valve. Both hot water valves shall be off when hot deck discharge air temperature is satisfied.

#### **Dual Duct airflow control damper**

- Dual duct control dampers shall be modulated by a room heating/cooling thermostat. Simultaneous heating and cooling is not allowed. Cooling duct will normally provide the minimum ventilation air. If room temperature falls below heating setpoint, the cooling damper will close and the heating damper will open and modulate to maintain heating setpoint. Heating setpoints are 68 degrees falling and 70 degrees rising. Cooling setpoints are 74 degrees rising and 72 degrees falling.

## **7.4 Sequence of Operation Police Department AHU-1**

### **Police Department**

#### **System Descriptions**

##### **AHU-1**

Built-up dual duct air handler with supply fan w/VFD, relief fan w/VFD, enthalpy controlled economizer, chilled water coils, heating water coils, outside air/ mixed air/ exhaust air dampers and dual duct VAV air boxes serving each zone/space with DDC controls.

#### **Supply Fan (AHU-1)**

- Supply fan will be operating 24-7.
- The supply fan shall vary in speed in response to a static pressure sensor with a 30% minimum speed for ventilation. "Full" speed shall be determined in the field at the time of the air balance, Siemens to coordinate with Mech subcontractor for air balance.
- Minimum air flow will be set based on minimum airflow required for the required ventilation air. Initial supply static air pressure setpoint shall be 1.0" w.c. Perform a static pressure test to determine optimum static pressure set point.

#### **Return Fan (AHU-1)**

- Return fan shall be interlocked with the supply fan. They will also vary speed based on building static pressure. "Full" speed shall be determined in the field at the time of the air balance. Building static pressure setpoint shall be +0.05" w.c. (+/- .01).



**Economizer**

- Economizer shall be based upon outside air dry bulb temperature and relative humidity with both low and high limits.
- When outside air is at the below conditions or less, the economizer cycle shall be enabled

Table 7.4.1: Economizer Temp Parameters

<b>Temp (degrees)</b>	<b>Wet Bulb (degrees)</b>
67.5	61
62.5	57
57.5	53
52.5	49

- When outside air temperature is 2 deg (adjustable) greater than the return air temperature and ambient relative humidity is great than 50%, the economizer cycle shall be disabled. The outside air economizer damper shall be set to minimum.
- When outside air temperature decreases below supply air temperature setpoint (67.5 deg adjustable), the outside air damper shall modulate to maintain desired supply temperature setpoint.

**Cold Deck**

- Cool deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, cool deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.4.2: Cold Deck Parameters

<b>Return Air Temp</b>	<b>Cool Deck Discharge Temperature</b>
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when cold deck discharge air temperature is satisfied.

**Hot Deck**

- Hot deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, hot deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.4.3: Hot Deck Parameters

Return Air Temp	Cool Deck Discharge Temperature
30 degrees	105 degrees
70 degrees	75 degrees

- Hot water valve shall modulate to maintain discharge air setpoint. Hot water valve shall be off when hot deck discharge air temperature is satisfied.

**Dual Duct airflow control damper**

- Dual duct control dampers shall be modulated by a room heating/cooling thermostat. Simultaneous heating and cooling is not allowed. Cooling duct will normally provide the minimum ventilation air. If room temperature falls below heating setpoint, the cooling damper will close and the heating damper will open and modulate to maintain heating setpoint. Heating setpoints are 68 degrees falling and 70 degrees rising. Cooling setpoints are 74 degrees rising and 72 degrees falling.

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# **PERFORMANCE CONTRACTING AGREEMENT**

between

**CITY OF GARDEN GROVE, CA**

and

**Siemens Industry, Inc.,  
Building Technologies Division**

## **TABLE OF ARTICLES**

1. Agreement
2. Glossary
3. General
4. Performance Guarantee
5. Work by SIEMENS
6. CLIENT Responsibilities
7. Changes and Delays
8. Compensation
9. Acceptance
10. Insurance and Allocation of Risk
11. Hazardous Material Provisions
12. Miscellaneous Provisions
13. Maintenance Services Program

## PERFORMANCE CONTRACTING AGREEMENT

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Number: 44OP-193145

### Article 1 AGREEMENT

THIS **PERFORMANCE CONTRACTING AGREEMENT** ("Agreement") is made this            day of            ,            (the "Effective Contract Date", defined below), by and between Siemens Industry, Inc., Building Technologies Division ("SIEMENS") and the party identified below as the CLIENT.

**The CLIENT:**    **City of Garden Grove**  
11222 Acacia Parkway  
Garden Grove, Ca. 92840

DESIGNATED REPRESENTATIVE: Phil Carter  
PHONE: (714) 741-5380 FAX:

**Siemens Industry, Inc., Building Technologies Division**  
1000 Deerfield Parkway  
Buffalo Grove, Illinois 60089

With offices at: 6141 Katella Avenue  
Cypress, CA.90630

DESIGNATED REPRESENTATIVE: Nathan Lyons  
PHONE: (858) 275-4019 FAX:

For Work and Services in connection with the following project (the "Project"):

City-Wide Energy Efficiency Facilities Modernization Project

The CLIENT considered performing the following FIMs but at this time, has determined to exclude them from the Scope of Work and Services, Exhibit A:

- **Water Department Facility Upgrades - Controls & Lighting**
- **Replacement of High Efficiency Pumps and Motors**
- **Facility/Pump Station Improvements**
- **AMI Meter upgrade program**
- **Energy Storage**

## PERFORMANCE CONTRACTING AGREEMENT

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### Articles and Attachments

This Agreement consists of this document, which includes the following articles and exhibits which are acknowledged by the CLIENT and SIEMENS and incorporated into the Agreement by this reference:

#### Articles

1. Agreement
2. Glossary
3. General
4. Performance Guarantee
5. Work BY SIEMENS
6. The CLIENT's Responsibilities
7. Changes and Delays
8. Compensation
9. Acceptance
10. Insurance and Allocation of Risk
11. Hazardous Material Provisions
12. Miscellaneous Provisions
13. Maintenance Services Program

#### Exhibits & Addenda

Addendum 1	Insurance Requirements
Exhibit A	Scope of Work and Services
Exhibit B	Payment Schedule(s)
Exhibit C	Performance Assurance
Exhibit D1	Form of Certificate of Substantial Completion
Exhibit D2	Form of Certificate of Final Completion

This Agreement, when executed by an authorized representative of the CLIENT and authorized representatives of SIEMENS, constitutes the entire, complete and exclusive agreement between the Parties relative to the project scope stated in Exhibit A. This Agreement supersedes all prior and contemporaneous negotiations, statements, representations, agreements, letters of intent, awards, or proposals, either written or oral relative to the same, and may be modified only by a written instrument signed by both Parties.

### COMPENSATION/TERMS OF PAYMENT:

As full consideration for the performance of the Work and Services set forth in Exhibit A, and for the Performance Assurance set forth in Exhibit C, the CLIENT shall pay SIEMENS in such manner and amounts as agreed to in Exhibit B.

Agreed for **City of Garden Grove**

(Signature) by: \_\_\_\_\_

Print Name and Title: \_\_\_\_\_

(Signature) by: \_\_\_\_\_

Print Name and Title: \_\_\_\_\_

Agreed for **Siemens Industry, Inc.**

(Signature) by: \_\_\_\_\_

Print Name and Title: \_\_\_\_\_

(Signature) by: \_\_\_\_\_

Print Name and Title: \_\_\_\_\_

## PERFORMANCE CONTRACTING AGREEMENT

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### Article 2

#### Glossary

The following terms shall for all purposes have the meanings stated herein, unless the context otherwise specifies or requires, or unless otherwise defined in the Agreement:

**Acceptance** means the CLIENT has signed, or is deemed to have signed, a Certificate of Final Completion.

**Acceptance Date** means the date on which the CLIENT signs or is deemed to have signed a Certificate of Final Completion.

**Annual Performance Assurance Report** means the document prepared by SIEMENS and submitted to the CLIENT as part of the Performance Assurance Service Program, which identifies the Savings achieved for the applicable Annual Period.

**Annual Period** means a twelve (12) month period beginning on the Guarantee Date or on any anniversary date thereof.

**Annual Realized Savings** means the actual Savings achieved by the CLIENT during an Annual Period, calculated as the sum of the Measured & Verified Savings plus the Stipulated Savings.

**Applicable Law** means laws, ordinances, codes, rules and regulations applicable to the Work and in effect on the Effective Contract Date.

**Baseline** means the measurements of Facility energy usage taken prior to the Effective Contract Date, and the Facility operating practices in effect prior to the Effective Contract Date, as set forth in the Performance Assurance, Exhibit C.

**Baseline Period** means the period of time from which data is provided to SIEMENS to derive the Baseline measurements. The Baseline Period is set forth in the Performance Assurance, Exhibit C.

**BTU** means a British Thermal Unit and is a unit of thermal energy.

**Capital Off-Set Savings** means a sub-category of Operational Savings where Savings will result in a cost effective upgrade to the Facility to address one or more of the following issues: potential future increased costs, comfort, code non-compliance, usage requirements, user needs and/or expectations.

**Certificate of Final Completion** means a document, in the form attached as Exhibit D2 hereto, indicating that the Work identified in Article 1 of the Scope of Work and Services-Exhibit A has been completed in accordance with the Agreement, including all items in the Outstanding Items List(s).

**Certificate of Substantial Completion** means a document, in the form attached as Exhibit D1 hereto, indicating that the Work, or a designated portion of the Work, is Substantially Complete in accordance with the Agreement. A Certificate of Substantial Completion may be accompanied by an Outstanding Items List.

**CLIENT Representative** means the person identified to SIEMENS by the CLIENT as the person authorized to make decisions on behalf of the CLIENT as set forth in Section 6.1(a) hereof.

**Construction Period** means the period between the Effective Contract Date and the first day of the month following the Acceptance Date.

**Construction Period Savings** means the actual accumulated Measured & Verified Savings plus the Stipulated Savings achieved from the Effective Contract Date until the Guarantee Date.

**Contracted Baseline** means the post-FIM-implementation Facility operating profile based on parameters described in Exhibit C, which the CLIENT shall maintain throughout the Performance Guarantee Period and are relied upon by SIEMENS for the calculation of Guaranteed Savings as provided in the Performance Assurance, Exhibit C. The Contracted Baseline must also include stipulated hours of operation and plug-loads for all Facilities, and must include stipulated blended, or non-blended, utility rates.

**Deferred Maintenance** means a sub-category of Operational Savings where Savings result from a reduction of current or potential future repair and maintenance costs due to certain work being performed hereunder where such work had been previously postponed.

**Deliverables** shall mean collectively, (a) any Equipment and any Software Product deliverable to CLIENT from SIEMENS under or in connection with the Work, and (b) any Work Product Deliverables.

**Effective Contract Date** is the date appearing at the top of this Agreement, unless specifically indicated otherwise.

**Energy Conservation Measure or ECM** means the SIEMENS Products and/or other third party equipment, devices, materials and/or software as installed by SIEMENS at the Facilities, or as repaired or replaced by SIEMENS or the CLIENT hereunder, for the purpose of improving the efficiency of utility consumption.

## PERFORMANCE CONTRACTING AGREEMENT

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**Equipment** means the installed physical equipment to be provided by SIEMENS as described in the Scope of Work and Services, Exhibit A.

**Escalation Rate** means an annual percentage increase to be applied to the previous Annual Period's energy savings, operational savings and service pricing, beginning and occurring on dates outlined in the Performance Assurance, Exhibit C. A different Escalation Rate may be applied to differing Savings calculations and/or payment schedules depending on the percentage agreed upon by the Parties.

**Facility or Facilities** means the building(s) or structure(s) where Work will be installed or implemented.

**Facility Improvement Measures or FIMs** means the (i) Instruments, know-how and Intellectual Property, including but not limited to methods and techniques for energy conservation, owned or licensed by SIEMENS and employed by SIEMENS to perform the Work and Services under this Agreement; and, (ii) the installation of Equipment and Software Products with the intent of generating net savings or efficiencies at or in connection with the operation of the Facilities. A FIM may include one or multiple ECMs as well as any non-conservation-related activities, means or methods.

**FEMP** means the Federal Energy Management Program managed by the United States Department of Energy.

**FEMP Guidelines** means the FEMP M&V Guidelines v. 3.0 published by FEMP as M&V Guidelines; Measurement and Verification for Federal Energy Management Projects.

**Guarantee Date** means the first day of the month following the date on which the CLIENT executes, or is deemed to have executed, the Certificate of Final Completion.

**Guaranteed Annual Savings** are the Guaranteed Measured & Verified Savings plus the Stipulated Savings that SIEMENS guarantees will be achieved in an Annual Period of the Performance Guarantee Period.

**Guaranteed Measured & Verified Savings** means the Measured & Verified Savings that SIEMENS guarantees will be achieved, as described in the Performance Assurance, Exhibit C.

**Guaranteed Savings** means the amount of Savings that SIEMENS guarantees will be achieved at the Facility during the Performance Guarantee Period, as identified in the Performance Assurance, Exhibit C as subject to the limitation identified in Section 4.8.

**Hazardous Materials** refers to the definition found in Section 11.1.

**Instruments** means all know-how, tools and related documentation owned or licensed by SIEMENS and used by SIEMENS to install or commission Equipment and Software Products for operation at the Facility, including but not limited to tools for installing any Software Products in Equipment, performing diagnostics on Equipment as installed in the Facility as well as any reports, notes, calculations, data, drawings, estimates, specifications, manuals, documents, all computer programs, codes and computerized materials prepared by or for SIEMENS and used by SIEMENS to provide an ECM or a FIM. Instruments excludes Work Product Deliverables.

**Intellectual Property Rights or Intellectual Property** means all trade secrets, patents and patent applications, trade marks (whether registered or unregistered and including any goodwill acquired in such trade marks), services marks, trade names, internet domain names, copyrights (including rights in computer software), moral rights, database rights, design rights, rights in know-how, rights in inventions (whether patentable or not) including, but not limited to, any and all renewals or extensions thereof, and all other proprietary rights (whether registered or unregistered, and any application for the foregoing), and all other equivalent or similar rights which may subsist anywhere in the world, including, but not limited to, any and all renewals or extensions thereof.

**IPMVP** means the International Performance Measurement and Verification Protocol, Volume 1, EVO 10000-1.2007 as prepared by the Efficiency Valuation Organization.

**kW and kWh** means kilowatt and kilowatt hour, respectively.

**Maintenance Services Program or MSP** means the Services performed by SIEMENS to maintain the Equipment in good working order. The MSP may also contain Services unrelated to the maintenance of the Equipment. If applicable, the MSP is more fully described in the Scope of Work and Services, Exhibit A.

**Material Change** means a measurable deviation in the Contracted Baseline such that there is an adverse impact on the Annual Realized Savings which results or will result in a Savings Shortfall.

**Measured & Verified Savings** means those Savings that can be calculated and ascertained by the methodology set forth in the Performance Assurance, Exhibit C.

**Oil** refers to the definition found in Section 11.1.

## PERFORMANCE CONTRACTING AGREEMENT

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**Operational Savings** means Savings derived from reduced operational expenses, including but not limited to, Deferred Maintenance, or Capital Off-Set Savings. Operational Savings can only be expressed in monetary value and are Stipulated Savings.

**Outstanding Items List** means a list of items in need of completion or correction that relates to the Work, or a designated portion thereof that is Substantially Complete. The absence of such items does not deprive the CLIENT of the ability to put such Work, or a designated portion thereof to beneficial use. An Outstanding Items List may be attached to a Certificate of Substantial Completion.

**Parties** means the CLIENT and SIEMENS.

**Performance Assurance** is the process of ascertaining whether the FIMs are performing at the level necessary to achieve the Guaranteed Savings.

**Performance Assurance Services Program or PASP** means the Services required to monitor the operation of the FIMs so that SIEMENS can provide the Annual Performance Assurance Report detailing the Annual Realized Savings and comparing the same to the Annual Guaranteed Savings based upon the calculations agreed to by the Parties in the Performance Assurance, Exhibit C. The Services provided under the PASP are described in the Scope of Work and Services, Exhibit A.

**Performance Guarantee** means the guarantee that SIEMENS makes to the CLIENT which is reconciled and confirmed through the Performance Assurance process set forth in the Performance Assurance, Exhibit C.

**Performance Guarantee Period** means the timeframe from the Guarantee Date to the last day of the final Annual Period as described in Table 1.1 of the Performance Assurance, Exhibit C, or the period from the Guarantee Date until the termination of this Agreement, whichever occurs earlier.

**Permitted Users** means the CLIENT, its employees and agents.

**Savings** means the Parties' intended result from implementing all FIMs. Savings can be derived from reductions in energy or utility consumption, reductions in operating expenses, a changed utility rate classification or a combination thereof. The Savings that are achieved from reduced energy or utility consumption are converted to a dollar figure based upon the calculation in Article 4.1.1 and as detailed in the Performance Assurance, Exhibit C. When converted to a dollar figure, these Savings become energy cost savings. Operational Savings are only expressed in a dollar figure.

**Savings Shortfall** means the Annual Realized Savings less the Guaranteed Annual Savings for the Annual Period resulting in an amount less than zero.

**Services** means those services to be provided by SIEMENS as described in the Scope of Work and Services, Exhibit A.

**SIEMENS Pre-existing Intellectual Property** means any Intellectual Property: (i) that has been conceived or developed by an employee or subcontractor of SIEMENS before SIEMENS performs any Work or Services under this Agreement; (ii) that is conceived or developed by such employee or subcontractor at any time wholly independently of SIEMENS performing the Work under this Agreement; or, (iii) if developed while performing the Work under this Agreement, where the development of Intellectual Property for the benefit of the CLIENT is not expressly identified as a FIM or part of a FIM. SIEMENS Pre-existing Property is included in all reports, notes, calculations, data, drawings, estimates, specifications, manuals, documents, all computer programs, codes and computerized materials prepared by or for SIEMENS.

**SIEMENS Product** means a product, including Software Product and/or Equipment, offered for sale or license by SIEMENS or its affiliates or subsidiaries and developed prior to performing the Work or SIEMENS rendering services in connection with this Agreement. A SIEMENS Product also includes improvements or modifications to any Equipment and any Software Product developed by SIEMENS or developed as part of the Work, including any SIEMENS Product that is configured or modified for operation at a site specified by the CLIENT. Any information that is provided by the CLIENT and incorporated into a SIEMENS Product is not, by itself, a SIEMENS Product. A compilation of such information and the product of such compilation, however, is a SIEMENS Product.

**Software Product** means any software that is owned or licensed by SIEMENS or its affiliates and that is either separately deliverable for use in the Equipment or for use in a computer system owned by the CLIENT or delivered as firmware embedded in the Equipment.

**Stipulated Savings** are a sub-category of Guaranteed Savings that do not require post-FIM implementation measurement and verification because they are agreed upon by the Parties based upon representations made to SIEMENS by the CLIENT and through the application of generally accepted analytical formulae. As such, Stipulated Savings are agreed upon in advance by the Parties and cannot be changed. When used as a methodology for representing a FIM's energy savings, such methodology is not recognized as a measurement and verification methodology under IPMVP. Therefore, where the



## PERFORMANCE CONTRACTING AGREEMENT

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IPMVP measurement methodologies are required, a methodology other than Stipulated Savings must be used to calculate energy savings.

**Substantial Completion or Substantially Complete** means the Work, or any identifiable portion thereof, which is sufficiently complete, in accordance with the provisions of this Agreement relating to the Scope of the Work and Services, Exhibit A, such that the CLIENT will be able to realize from such Work substantially all of the practical benefits intended to be gained therefrom, or otherwise employ the Work or the FIMs for their intended purposes.

**Therm** is a measure of energy equal to 100,000 BTUs.

**Total Guaranteed Savings** means the sum of the Savings that are guaranteed for all Annual Periods during the Performance Guarantee Period (inclusive of the Construction Period, if applicable). The Total Guaranteed Savings are reflected in Tables 1.1 and 1.2 in the Performance Assurance, Exhibit C.

**Work** means collective labor, Equipment and services comprising the FIMs to be performed by SIEMENS, as described in the Scope of Work and Services, Exhibit A.

**Work Product Deliverable** means the tangible form of a report or drawing specifically developed for, commissioned by and deliverable to the CLIENT in connection with the Work to be performed by SIEMENS under this Agreement.

### Article 3 – General

3.1 The Parties hereto acknowledge and agree that this Agreement has been negotiated at arm's length and among the Parties equally sophisticated and knowledgeable as to the subject matter of this Agreement. Each party has conferred, or has had the opportunity to confer, with their respective legal counsel. Accordingly, in the event any claim is made relating to any conflict, omission, or ambiguity in this Agreement, no presumption, burden of proof, or persuasion shall be implied by virtue of the fact that this Agreement was drafted by or at the request of a particular party or its legal counsel.

3.2 The CLIENT hereby engages and SIEMENS hereby accepts the engagement to perform and to provide the Work and Services set forth in Exhibit A in accordance with the terms and conditions of this Agreement.

3.3 SIEMENS shall perform the Work as an independent contractor with exclusive control of the manner and means of performing the Work in accordance with the requirements of this Agreement. SIEMENS has no authority to act or make any agreements or representations on behalf of the CLIENT. This Agreement is not intended, and shall not be construed to create, between the CLIENT and SIEMENS, the relationship of principal and agent, joint-venturers, co-partners or any other such relationship, the existence of which is hereby expressly denied. No employee or agent of SIEMENS shall be, or shall be deemed to be, an employee or agent of the CLIENT.

3.4 SIEMENS represents, warrants and covenants to the CLIENT that:

(a) It has all requisite corporate power to enter into this Agreement, and that its execution hereof has been duly authorized and does not and will not constitute a breach or violation of any of SIEMENS organizational documents, any Applicable Law, or any agreements with third parties;

(b) It has done and will continue to do all things necessary to preserve and keep in full force and effect its existence and the Agreement;

(c) This Agreement is the legal, valid and binding obligation of SIEMENS, in accordance with its terms, and all requirements have been met and procedures have been followed by SIEMENS to ensure the enforceability of the Agreement;

(d) To SIEMENS best knowledge, there is no pending or threatened, suit, action, litigation or proceeding against or affecting SIEMENS that affects the validity or enforceability of this Agreement; and,

(e) It is duly authorized to do business in all locations where the Work and Services are to be performed.

3.5 The CLIENT represents, warrants and covenants to SIEMENS that:

(a) It has all requisite corporate power and/or statutory authority to enter into this Agreement, and that its execution hereof has been duly authorized and does not and will not constitute a breach or violation of any of the CLIENT's organizational documents, any Applicable Law, or any agreements with third parties;

(b) It has done and will continue to do all things necessary to preserve and keep in full force and effect its existence and the Agreement;

(c) This Agreement is the legal, valid and binding obligation of the CLIENT, in accordance with its terms, and all requirements have been met and procedures have been followed by the CLIENT to ensure the enforceability of the Agreement;

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(d) To the CLIENT's best knowledge, there is no pending or threatened, suit, action, litigation or proceeding against or affecting the CLIENT that affects the validity or enforceability of this Agreement; and,

(e) The CLIENT has consulted with its legal counsel and is relying on the advice of its counsel concerning all legal issues related to this Agreement, and is not relying on SIEMENS in this regard.

### Article 4 - Performance Guarantee

4.1 The Annual Realized Savings generated during each Annual Period will be no less than the Guaranteed Annual Savings as shown in Tables 1.1 and 1.2 of the Performance Assurance, Exhibit C, subject to the limits in Section 4.8. The measurement and verification calculation methodology for determining the Savings is set forth in the Performance Assurance, Exhibit C.

4.1.1 General. Except as otherwise provided, energy savings will be calculated for each month of each Annual Period as the product of (a) "units of energy saved" (kWh, Therms, GJ, etc.) multiplied by (b) "cost of energy."

(a) Units of energy saved are calculated by 1) assuming the Contracted Baseline has been maintained per Section 4.3 below, and 2) subtracting the then current period measured units of energy consumed from the Baseline units of energy defined in Article 5 of Exhibit C.

(b) Costs of energy are defined in Article 6 of Exhibit C-Utility Rate Structures and Escalation Rates.

4.2 Any future Escalation Rates to be applied to utility, energy or other costs are set forth in Exhibit C. SIEMENS and the CLIENT agree that the Baseline data set forth in Exhibit C is a full and accurate reflection of the existing Facility, equipment, operation, business use and energy usage, and that such Baseline data will be the basis on which all future energy use will be compared in order to determine the Annual Realized Savings.

4.3 SIEMENS and the CLIENT agree that the Contracted Baseline fully described in Exhibit C will represent the new operating and/or equipment profile of the Facility resulting from the FIM implementation. The Performance Guarantee is dependent upon and is subject to the express condition that the CLIENT operates and maintains its Facilities within the Contracted Baseline parameters, as may be adjusted in accordance with the terms herein, during the entire term of the Performance Guarantee Period.

4.4 The CLIENT agrees to notify SIEMENS prior to or within thirty (30) days of CLIENT's knowledge of any Material Change.

4.5 Within thirty (30) days of notice of a Material Change, SIEMENS' discovery of a Material Change and with prompt notice to CLIENT, SIEMENS will either:

(a) Require an adjustment to the Performance Assurance and the Performance Guarantee as a result of the Material Change; or,

(b) Where a commercially reasonable adjustment to the Performance Guarantee is unavailable, terminate both the Performance Assurance and the Performance Guarantee.

4.6 A Performance Guarantee Period savings reconciliation as identified in Section 4.1 will be performed at the end of each Annual Period as follows:

(a) Within ninety (90) days of the Guarantee Date, the Construction Period Savings shall be reconciled and applied to the calculation of the first Annual Period's Annual Realized Savings.

(b) At the conclusion of each Annual Period, SIEMENS will calculate the Annual Realized Savings and compare the calculated amount to the applicable Guaranteed Annual Savings amount.

(c) Where the Annual Realized Savings are less than the Guaranteed Annual Savings, a Savings Shortfall shall be recorded for the applicable Annual Period.

(d) A Savings Shortfall shall be paid by SIEMENS within sixty (60) days following the CLIENT's acceptance of the reconciliation and once paid SIEMENS shall have fulfilled its obligations under the Performance Guarantee for the applicable Annual Period.

4.6.1 As the mutual goal of the Parties is to maximize Savings, if SIEMENS can correct a Savings Shortfall through an operational improvement at no expense or material inconvenience to the CLIENT and without future operational expenses, and the CLIENT declines to allow such operational improvement, then any future Savings Shortfall that the improvement would have corrected will be negated by deeming the value of the Savings

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Shortfall as Savings achieved and adding the amount of same to the Annual Realized Savings calculations for each Annual Period thereafter.

4.7 The Performance Guarantee is dependent upon and is subject to the express condition that the CLIENT maintains the PASP during the entire Performance Guarantee Period. If the CLIENT fails to maintain, breaches, cancels or otherwise causes the termination of the PASP then; (a) The Performance Guarantee shall terminate immediately and be void and of no force or effect; or, (b) Where termination of the Performance Guarantee acts to render the Agreement in violation of Applicable Law, all Guaranteed Savings thereafter shall be determined to have been achieved and SIEMENS shall have been deemed to have met its Performance Guarantee obligations under this Agreement for each and every Annual Period thereafter without the obligation to provide the CLIENT, or any third-party as the case may be, with any further Annual Performance Assurance Reports.

4.8 The payments and credits based on Savings Shortfalls, if any, are the sole remedy of the CLIENT under this Performance Guarantee. ANY PAYMENTS MADE OR TO BE MADE TO THE CLIENT UNDER THE TERMS OF THIS PERFORMANCE GUARANTEE SHALL NOT EXCEED THE PAYMENTS ACTUALLY MADE BY CLIENT TO EITHER SIEMENS AND/OR A THIRD-PARTY (IN THE EVENT THAT THE CLIENT HAS FINANCED THE TRANSACTION) FOR THE AGGREGATE OF: THE PRICE, AS DEFINED IN EXHIBIT B, ARTICLE 1.1; THE PASP PAYMENTS; THE MSP PAYMENTS, IF ANY; AND, IF APPLICABLE, THE CLIENT'S COST OF FINANCING THE WORK. The CLIENT's cost of financing the Work is the cost of financing calculated either: (a) On the date that the escrow account is funded in accordance with Exhibit B, Article 1.2; or, (b) On the Effective Contract Date if the escrow requirement is expressly waived by SIEMENS.

4.9 The CLIENT represents that all existing equipment that is not installed by SIEMENS under this Agreement but is deemed necessary to achieve the Performance Guarantee, is in satisfactory working condition. Prior to the beginning of the Performance Guarantee Period, SIEMENS will have inspected all such existing equipment and reported any deficiencies to the CLIENT. To the extent that the deficiencies are not remedied by the CLIENT prior to the Guarantee Date, the adverse effect on the ability of the Project to attain the necessary Guaranteed Savings shall be factored into the Annual Performance Assurance Report and, if necessary, the Performance Guarantee shall be adjusted accordingly.

4.10 If the Equipment or the existing equipment is altered or moved by any person (including the CLIENT) other than SIEMENS or a person authorized by SIEMENS, the CLIENT shall immediately notify SIEMENS in writing, and SIEMENS reserves the right to perform a reacceptance test on, or if necessary a re-commissioning of, the system at the CLIENT's expense in order to determine if a Material Change has occurred.

4.11 SIEMENS will have no liability or obligation to continue providing PASP Services or any Guaranteed Savings under the Performance Guarantee in the event that the CLIENT fails to:

- (a) Authorize a re-acceptance test or re-commissioning that SIEMENS reasonably deems necessary in order to determine if a Material Change has occurred;
- (b) Provide access to any Facility where Work is to be performed;
- (c) Service and maintain all Equipment in accordance with the manufacturers' recommendations in order to prevent a Savings Shortfall; or,
- (d) Provide SIEMENS with accurate Facility operating information as soon as such information becomes reasonably available to the CLIENT, including energy usage and cost, executed preventive maintenance and repair records, building or equipment additions, and occupancy levels during each Annual Period.

4.12 Unless expressly contrary to Applicable Law, should the CLIENT decide to discontinue the PASP before the end of the Performance Guarantee Period, the CLIENT will give SIEMENS thirty (30) days prior written notice and in such notice indicate that the CLIENT has selected one of the following:

- (a) The CLIENT will re-invest the avoided cost of cancellation of the PASP into Facility improvements and services that improve the overall Facility's performance and which improvements and services are implemented by SIEMENS; or,
- (b) The CLIENT will pay to SIEMENS % of the remaining value left in the PASP Annual Period, as a liquidated damage and not as a penalty, to compensate SIEMENS for SIEMENS' up-front costs and expenses in preparing to perform the PASP as contracted for the Annual Period.

4.13 Unless expressly contrary to Applicable Law, any disputes concerning the calculation of the Annual Realized Savings or changes to the Contracted Baseline that are not resolved by negotiation between the Parties within thirty (30)

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days of the notice of the dispute, will be resolved by a third-party professional engineering firm which is reasonably acceptable to both SIEMENS and the CLIENT. The determination of such firm will be final and binding upon CLIENT and SIEMENS. SIEMENS and the CLIENT will each be responsible for half of the fees of such firm.

### Article 5 - Work by SIEMENS

5.1 SIEMENS will perform the Work expressly described in this Agreement and in any work release documents or change orders that are issued under this Agreement and signed by both Parties. The Work performed by SIEMENS shall be conducted in a workmanlike manner.

5.2 SIEMENS shall perform the Work during its normal hours, Monday through Friday inclusive, excluding holidays, unless otherwise agreed herein. The CLIENT shall make the Facility available so Work may proceed in an efficient manner.

5.3 SIEMENS is not required to conduct safety, reacceptance or other tests, install new devices or equipment or make modifications to any Equipment unless expressly made a part of the Work identified in the Scope of Work and Services, Exhibit A. Any CLIENT request to change the scope or the nature of the Work or Services must be in the form of a mutually agreed change order, effective only when executed by the Parties.

5.4 All Work Product Deliverables shall become the CLIENT's property upon receipt by CLIENT. SIEMENS may retain file copies of such Work Product Deliverables. If any Instruments are provided to the CLIENT under this Agreement, any such Instruments shall remain SIEMENS' property, including the Intellectual Property conceived or developed by SIEMENS in the Instruments. All SIEMENS' Pre-existing Intellectual Property that may be included in the Deliverables provided to the CLIENT under this Agreement shall also remain SIEMENS property including the SIEMENS Pre-existing Intellectual Property included in the Work Product Deliverables. All Work Product Deliverables and any Instruments provided to the CLIENT are for Permitted Users' use and only for the purposes disclosed to SIEMENS. SIEMENS hereby grants the CLIENT a royalty-free (once payments due under this Agreement are paid to SIEMENS), non-transferable, perpetual, nonexclusive license to use any SIEMENS Pre-existing Intellectual Property solely as incorporated into the Deliverables and SIEMENS' Intellectual Property as incorporated into any Instruments provided to the CLIENT under this Agreement. Under such license, and following agreement to be bound to such separate confidentiality provisions that may exist between the Parties, Permitted Users shall have a right to:

(a) Use, in object code form only, the Software Products included in the Deliverables ("Software Deliverables");

(b) Make and retain archival and emergency copies of such Software Deliverables (subject to any confidentiality provisions) except if the Software Deliverable is embedded in the Equipment; and,

(c) Use all such Deliverables and such Instruments, provided however, the Deliverables and Instruments shall not be used or relied upon by any parties other than Permitted Users, and such use shall be limited to the particular project and location for which the Deliverables are provided. All Deliverables provided to the CLIENT are for Permitted Users' use only for the purposes disclosed to SIEMENS, and the CLIENT shall not transfer them to others or use them or permit them to be used for any extension of the Work or any other project or purpose, without SIEMENS' express written consent.

5.4.1 Any reuse of such Deliverables or such Instruments for other projects or locations without the written consent of SIEMENS, or use by any party other than Permitted Users will be at Permitted Users' risk and without liability to SIEMENS; and, the CLIENT shall indemnify, defend and hold SIEMENS harmless from any claims, losses or damages arising therefrom.

5.4.2 In consideration of such license, CLIENT agrees not to reverse engineer any Equipment or Software Product to reconstruct or discover any source code, object code, firmware, underlying ideas, or algorithms of such Equipment or Software Product even to the extent such restriction is allowable under Applicable Law.

5.4.3 Nothing contained in this Agreement shall be interpreted or construed to convey to the CLIENT the pre-existing Intellectual Property rights of any third party incorporated into the Deliverables. CLIENT agrees to take delivery of any Software Deliverables subject to any applicable SIEMENS or third party end-user license agreement accompanying such Software Deliverable.

## PERFORMANCE CONTRACTING AGREEMENT

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5.5 SIEMENS shall be responsible for any portion of the Work performed by any subcontractor of SIEMENS. SIEMENS shall not have any responsibility, duty or authority to direct, supervise or oversee any contractor of the CLIENT or their work or to provide the means, methods or sequence of their work or to stop their work. SIEMENS' work and/or presence at the Facility shall not relieve others of their responsibility to the CLIENT or to others.

5.6 SIEMENS warrants that:

(a) Unless otherwise agreed, all Equipment shall be new and of good quality. Until one year from the date the Equipment is installed, all Equipment manufactured by SIEMENS or bearing its nameplate will be free from defects in material and workmanship arising from normal use and service.

(b) Labor for all Work, excluding PASP or MSP Services, is warranted to be free from defects in workmanship for one year after the Work is performed. PASP Services and MSP Services are warranted to be free from defects in workmanship for ninety (90) days after the Services are performed.

5.7 Warranty Limitation:

(a) The limited warranties set forth in Section 5.6 will be void as to, and shall not apply to, any Equipment (i) repaired, altered or improperly installed by any person other than SIEMENS or its authorized representative; (ii) which the CLIENT or a third party subjects to unreasonable or improper use or storage, uses beyond rated conditions, operates other than per SIEMENS or the manufacturer's instructions, or otherwise subjects to improper maintenance, negligence or accident; (iii) damaged because of any use of the Equipment after the CLIENT has, or should have had, knowledge of any defect in the Equipment; or (iv) not manufactured, fabricated and assembled by SIEMENS or not bearing SIEMENS nameplate. However, SIEMENS assigns to the CLIENT, without recourse, any and all assignable warranties available from any manufacturer, supplier, or subcontractor of such Equipment.

(b) Any claim under the limited warranty granted above must be made in writing to SIEMENS within thirty (30) days after discovery of the claimed defect unless discovered directly by SIEMENS. Such limited warranty only extends to the CLIENT and not to any subsequent owner of the Equipment. The CLIENT's sole and exclusive remedy for any Equipment or Services not conforming with this limited warranty is limited to, at SIEMENS' option: (i) repair or replacement of defective components of covered Equipment; (ii) re-performance of the defective portion of the Services; or (iii) to the extent previously paid and itemized, the issuance of a credit or refund for the original purchase price of such defective component or portion of the Equipment or Services.

(c) SIEMENS shall not be required to repair or replace more than the component(s) of the Equipment or the portion of the Work and Services actually found to be defective. SIEMENS' warranty liability shall not exceed the purchase price of such item. Repaired or replaced Equipment or Services will be warranted hereunder only for the remaining portion of the original warranty period.

5.8 THE EXPRESS LIMITED WARRANTIES PROVIDED ABOVE ARE IN LIEU OF AND EXCLUDE ALL OTHER WARRANTIES, STATUTORY, EXPRESS, OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXPRESSLY DISCLAIMED. THE LIMITED EXPRESS WARRANTIES AND REPRESENTATIONS SET FORTH IN THIS AGREEMENT MAY ONLY BE MODIFIED OR SUPPLEMENTED IN A WRITING EXECUTED BY A DULY AUTHORIZED SIGNATORY OF EACH PARTY.

5.9 SIEMENS will not be responsible for the maintenance, repair or replacement of, or Services necessitated by reason of:

(a) Non-maintainable, non-replaceable or obsolete parts of the Equipment, including but not limited to: ductwork, shell and tubes, heat exchangers, coils, unit cabinets, casings, refractory material, electrical wiring, water and pneumatic piping, structural supports, cooling tower fill, slats and basins, etc., unless covered by the warranty provisions herein or otherwise specifically stated herein; or

(b) The CLIENT's or a third-party's negligence, abuse, misuse, improper or inadequate repairs or modifications, improper operation, lack of operator maintenance or skill, corrosion, erosion, improper or inadequate water treatment, electrolytic action, chemical action, failure to comply with manufacturer's operating and environmental requirements, Acts of God, or other reasons beyond SIEMENS' control. Unless expressly agreed in writing, SIEMENS is not responsible for the removal or reinstallation of replacement valves, dampers, or waterflow and tamper switches with respect to pipes and ductwork, including vent or drain system. SIEMENS ASSUMES NO RESPONSIBILITY FOR ANY SERVICE PERFORMED ON ANY EQUIPMENT OTHER THAN THAT PERFORMED BY SIEMENS OR ITS AGENTS.

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### Article 6 - CLIENT Responsibilities

6.1 The CLIENT, without cost to SIEMENS, shall:

- (a) Designate a contact person with authority to make decisions for the CLIENT regarding the Work and provide SIEMENS with information sufficient to contact such person in an emergency;
- (b) Coordinate the work of contractors under CLIENT's sole control so as not to disrupt the Work and Services proceeding in an efficient manner;
- (c) Provide or arrange for 24 hour, 7 day per week access and make all reasonable provisions for SIEMENS to enter any Facility where Work is to be performed so that Work may proceed in an efficient manner;
- (d) Permit SIEMENS to control and/or operate all building controls, systems, apparatus, equipment and machinery necessary to perform the Work;
- (e) Furnish SIEMENS with blueprints, surveys, legal descriptions, waste management plans and all other available information pertinent to the Work and any Facility where the Work is to be performed as may be reasonably requested by SIEMENS. Such plans and blueprints, along with an executed copy of this Agreement, with its Exhibits, shall be kept and maintained in CLIENT's files for a period of fifteen (15) years from the Effective Contract Date;
- (f) Furnish SIEMENS with all approvals, permits and consents from government authorities and others as may be required for performance of the Work, except for those SIEMENS has expressly agreed in writing to obtain;
- (g) In accordance with Article 11 hereof, promptly notify SIEMENS of all known or suspected Hazardous Materials at the Facility, of any contamination of the Facility by Oil or Hazardous Material, and of any other conditions requiring special care or which may reasonably be expected to affect the Work, and provide SIEMENS with any available documents describing the quantity, nature, location and extent of such materials, contamination or conditions;
- (h) Comply with Applicable Law and provide any notices required to be given to any government authorities in connection with the Work, except such notices SIEMENS has expressly agreed in writing to give;
- (i) Provide SIEMENS with legally required materials and information (including but not limited to Material Safety Data Sheets) related to all Hazardous Materials located at any Facility where the Work is to be performed;
- (j) Furnish SIEMENS with any contingency plans, safety programs and other policies, plans or programs related to any Facility where the Work is to be performed;
- (k) Operate, service and maintain all Equipment according to the manufacturer's recommendations including those set forth in the manufacturer's operating manuals or instructions, as well as all requirements of Applicable Law or of authorities having jurisdiction. The CLIENT shall furnish all needed servicing and parts for said FIMs, which parts shall become part of the FIMs. Such Equipment shall be operated only in the specified operating environment, which shall be supplied by the CLIENT, including without limitation: (1) suitable electrical service, including clean, stable, properly conditioned power, to all Equipment; (2) telephone lines, capacity and connectivity as required by such Equipment; and (3) heat, light, air conditioning or other environmental controls, and other utilities in accordance with the specifications for the Equipment;
- (l) Promptly notify SIEMENS of any unusual operating conditions, hours of usage, system malfunctions, installed equipment or building alterations that may affect the Equipment or energy usage or any Services; and,
- (m) If applicable, provide and pay for a dedicated voice grade dial-up phone line, or a mutually agreed communication method, and install a terminal block, or an equivalent communication mechanism, in a mutually agreed upon location. All on-line service Equipment (excluding the phone line) will remain the property of SIEMENS unless otherwise stated herein.

6.2 Unless contrary to Applicable Law, the CLIENT acknowledges that the technical and pricing information contained in this Agreement is confidential and proprietary to SIEMENS and agrees not to disclose it or otherwise make it available to others without SIEMENS' express written consent.

6.3 The CLIENT acknowledges that it is now and shall at all times remain in control of the Facility. Except as expressly provided herein, SIEMENS shall not be responsible for the adequacy of the health or safety programs or precautions related to the CLIENT's activities or operations, the CLIENT's other contractor(s), the work of any other person or entity, or Facility conditions. SIEMENS shall not be responsible for inspecting, observing, reporting or correcting health or safety conditions or deficiencies of the CLIENT or others at the Facility. So as not to discourage SIEMENS from voluntarily addressing health or safety issues while at the Facility, in the event SIEMENS does address such issues by making observations, reports, suggestions or otherwise, the CLIENT shall not hold, or attempt to hold, SIEMENS liable or responsible on account thereof.

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### **Article 7-Changes and Delays**

7.1 As the Work is performed, Applicable Law or conditions may change, or circumstances outside SIEMENS' reasonable control may develop, which would require SIEMENS to expend additional costs, effort or time to complete the Work, in which case SIEMENS will notify the CLIENT and an equitable adjustment will be made to SIEMENS' compensation and the time for performance. In the event such changes require the Work to be suspended or terminated, SIEMENS shall be compensated for Work previously performed and for costs reasonably incurred in connection with the suspension or termination.

7.2 Either party may request additions, deletions, modifications or changes to the Work. Any such requests shall only become effective upon execution of a written agreement by authorized representatives of both Parties.

7.3 SIEMENS may, in its sole discretion, substitute alternative parts, goods or equipment in the performance of the Work, provided that any such substitution shall be of an equal or better quality.

7.4 SIEMENS shall not be responsible for loss, delay, injury, damage or failure of performance that may be caused by circumstances beyond its control, including but not restricted to acts or omissions by the CLIENT or its employees, agents or contractors, Acts of God, war, civil commotion, acts or omissions of government authorities, fire, theft, corrosion, flood, water damage, lightning, freeze-ups, strikes, lockouts, differences with workmen, riots, explosions, quarantine restrictions, delays in transportation, or shortage of vehicles, fuel, labor or materials. In the event of such delay or failure, the time for performance shall be extended by a period equal to the time lost plus a reasonable recovery period and the compensation shall be equitably adjusted to compensate for additional costs SIEMENS incurs due to such delay. If any such delay exceeds sixty (60) days, SIEMENS may terminate this Agreement upon three (3) days notice to the CLIENT and the CLIENT shall promptly pay SIEMENS for the allocable portion of the Work completed, for any costs and expenses of termination, and for any loss or damage incurred with respect to materials, equipment, tools and machinery, including reasonable overhead and profit.

### **Article 8- Compensation**

8.1 The aggregate amount paid by CLIENT provides for and is solely in consideration of the Scope of Work and Services described in Exhibit A, and is detailed in Exhibit B.

8.2 SIEMENS will invoice the CLIENT in accordance with the schedules set forth in Exhibit B. Unless otherwise agreed in writing, invoices are due and payable upon receipt by the CLIENT. If the CLIENT disagrees with any portion of an invoice, it shall notify SIEMENS in writing of the amount in dispute and the reason for its disagreement within 21 days of receipt of the invoice, and shall pay the portion not in dispute.

8.3 SIEMENS may suspend or terminate the Work or Services at any time if payment is not received when due. In such event, SIEMENS shall be entitled to compensation for the Work or Services previously performed and for costs reasonably incurred in connection with the suspension or termination.

8.4 On amounts not paid within forty-five (45) days of invoice date, the CLIENT shall pay interest from invoice date until payment is received at the lesser of 12% per annum or the maximum rate allowed by law. The CLIENT shall reimburse SIEMENS for SIEMENS' costs and expenses (including reasonable attorney and witness fees) incurred for collection under this Agreement.

8.5 Except to the extent expressly agreed herein, SIEMENS' fees do not include any taxes, excises, fees, duties or other government charges related to the Work or Services. The CLIENT shall pay such amounts or reimburse SIEMENS for any such amounts SIEMENS pays to the extent such charges are lawfully due and payable by CLIENT and have been paid or incurred by SIEMENS in furtherance thereof. If the CLIENT claims that the Work or Services is subject to a tax exemption or direct payment permit, it shall provide SIEMENS with a valid exemption certificate or permit and, unless specifically prohibited by law, shall indemnify, defend and hold SIEMENS harmless from any taxes, costs and penalties arising out of the use or acceptance of same.

8.6 All other work or services requested by the CLIENT, including but not limited to the following, shall be separately billed or surcharged on a time and materials basis:

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- (a) Emergency services, if inspection does not reveal any deficiency covered by the Scope of Work and Services, Exhibit A;
- (b) Work and/or services performed at times other than during SIEMENS' normal working hours, unless otherwise agreed to in Exhibit A; or
- (c) Work and/or services performed on equipment not covered by the Scope of Work and Services, Exhibit A.

### Article 9- Acceptance

9.1 When SIEMENS believes that all or an independent definable phase or portion of the Work is Substantially Complete, SIEMENS will submit a Certificate of Substantial Completion to the CLIENT which shall be subject to the following:

- (a) If the CLIENT concurs that the described portion of the Work as performed is Substantially Complete, the CLIENT will sign the Certificate of Substantial Completion and return it to SIEMENS;
- (b) A Certificate of Substantial Completion may include, as an attachment to it, an Outstanding Items List prepared by SIEMENS;
- (c) If the CLIENT does not concur that the Work is Substantially Complete, then, within five (5) business days of receiving the Certificate of Substantial Completion, the CLIENT shall notify SIEMENS in writing of the reasons it believes the Work is not Substantially Complete;
- (d) If SIEMENS disagrees with the CLIENT as to whether the Work is Substantially Complete, SIEMENS shall notify the CLIENT of a dispute and such dispute shall be resolved in accordance with Section 9.3 herein;
- (e) If, within five (5) business days of receiving the Certificate of Substantial Completion the CLIENT fails to sign the Certificate, and within the same period the CLIENT's Representative does not deliver to SIEMENS a written notice of the reasons the CLIENT believes that the Work is not Substantially Complete, then in the mutual interests of the Project proceeding in a timely manner, the CLIENT will be deemed to have agreed to, signed and returned the Certificate of Substantial Completion.

9.2 After the CLIENT signs and returns, or is deemed to have signed and returned to SIEMENS all of the Certificates of Substantial Completion relating to the Work, and after SIEMENS corrects and completes all of the items on all of the Outstanding Items Lists, if any, SIEMENS will submit to the CLIENT a Certificate of Final Completion which shall be subject to the following:

- (a) If the CLIENT concurs that all of the items on all of the Outstanding Items Lists have been completed or corrected, the CLIENT will indicate its final acceptance of the Work by signing the Certificate of Final Completion and returning it to SIEMENS;
- (b) If the CLIENT does not concur that all of the items on all of the Outstanding Items Lists have been completed or corrected, then the CLIENT shall, within five (5) business days of receiving the Certificate of Final Completion, identify the items that, it believes, were not completed or corrected;
- (c) If SIEMENS disagrees that the items identified by the CLIENT have not been completed or corrected, SIEMENS shall notify the CLIENT of a dispute and such dispute shall be resolved in accordance with section 9.3 herein;
- (d) If, within five (5) business days of receiving a Certificate of Final Completion, the CLIENT fails to sign that Certificate, and, within the same period the CLIENT's Representative does not deliver to SIEMENS a written notice identifying the items on the Outstanding Items List(s) that, the CLIENT believes, were not completed or corrected, then the CLIENT will be deemed to have agreed to and signed and returned the Certificate of Final Completion.

9.3 Any disputes concerning the Substantial Completion or the Final Completion of the Work will be resolved by submitting the issue to a third party professional engineering firm and which is reasonably acceptable to both SIEMENS and the CLIENT. The determination of this firm with respect to Final Completion or Substantial Completion will be final and binding upon the Parties. SIEMENS and the CLIENT shall share equally the costs or fees for such firm in connection with such dispute resolution process.

### Article 10-Insurance and Allocation of Risk

10.1 During the term of this Agreement, SIEMENS shall comply with the insurance requirements set forth in Addendum 1 hereto.

10.2 The CLIENT will either maintain at its own expense, or self-insure for the equivalent risks, property insurance written on a builder's "all-risk" or equivalent policy form in an amount no less than the Price identified in Exhibit B, Article 1.1, plus the value of subsequent modifications and cost of materials supplied or installed by others, on a replacement



## PERFORMANCE CONTRACTING AGREEMENT

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cost basis without optional deductibles. Such property insurance shall be maintained, unless otherwise provided in the Contract Documents or otherwise agreed in writing by SIEMENS, until final payment has been made to SIEMENS or no person or entity other than the CLIENT has an insurable interest in the property, whichever is later. The policy form shall include without limitation, insurance against the perils of fire (with extended coverage) and physical loss or damage including, without duplication of coverage, theft, vandalism, malicious mischief, collapse, earthquake, flood, windstorm, falsework, testing and start-up, rebuilding and debris removal including demolition occasioned by enforcement of any applicable legal requirements, and shall cover reasonable compensation for SIEMENS' services and expenses required as result of such insured loss. If the insurance requires deductibles or retentions, the CLIENT shall pay costs not covered because of such deductibles or retentions. This insurance shall cover portions of the Work off the Facility, and also portions of the Work in transit. Partial occupancy or use shall not commence unless the insurance company providing this insurance has consented to such partial occupancy or use by endorsement for otherwise. The CLIENT shall purchase and maintain boiler and machinery insurance which shall specifically cover such insured objects during installation and until Acceptance by the CLIENT. The insurance required by this section shall include the interests of the CLIENT, SIEMENS, subcontractor and sub-subcontractor in the Work. SIEMENS shall be included as an additional insured on each such insurance coverage. The CLIENT and SIEMENS waive all rights against each other and any of their subcontractors, sub-subcontractors, agents and employees for damages caused by fire or other causes of loss to the extent covered by the insurance required by this section and for any other property insurance applicable to the Work, except such rights as they have to proceeds of such insurance held by the CLIENT as fiduciary. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged. Insurance certificates shall be furnished upon request.

10.3 Title and risk of loss of materials and Equipment furnished by SIEMENS shall pass to the CLIENT upon their delivery to the Facility, and the CLIENT shall be responsible for protecting them against theft and damage.

10.4 All work covered by this Agreement done at the site of construction or in preparing or delivering materials to the site shall be at the risk of SIEMENS alone. SIEMENS agrees to defend, save, indemnify and keep the CLIENT and its officers, agents, employees, engineers, and consultants for this Agreement, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees harmless against any and all liability, claims, judgments, costs and demands, including demands arising from injuries or death of persons (SIEMENS' employees included) and damage to property, arising directly or indirectly out of the obligations herein undertaken or out of the operations conducted by SIEMENS, save and except claims or litigation arising through the active negligence or willful misconduct of the CLIENT, and will make good to reimburse the CLIENT for any expenditures, including reasonable attorneys' fees the CLIENT may incur by reason of such matters. SIEMENS reserves the right to control the defense and settlement of any claim for which SIEMENS has an obligation to indemnify hereunder. UNLESS CONTRARY TO APPLICABLE LAW, IN NO EVENT SHALL THE CLIENT OR SIEMENS BE LIABLE UNDER THIS INDEMNITY OR OTHERWISE UNDER THIS AGREEMENT FOR SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES, INCLUDING COMMERCIAL LOSS, LOSS OF USE, OR LOST PROFITS, HOWEVER CAUSED, EVEN IF SIEMENS OR THE CLIENT HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES AND, IN ANY EVENT, UNLESS CONTRARY TO APPLICABLE LAW, SIEMENS' AGGREGATE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES OR EXPENSES ARISING OUT OF THIS AGREEMENT, OR OUT OF ANY GOODS OR SERVICES FURNISHED UNDER THIS AGREEMENT, WHETHER BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, AGENCY, WARRANTY, TRESPASS, INDEMNITY OR ANY OTHER THEORY OF LIABILITY, SHALL BE LIMITED TO THE LESSER OF \$1,500,000 OR THE TOTAL COMPENSATION RECEIVED BY SIEMENS FROM THE CLIENT UNDER THIS AGREEMENT. The preceding limit shall not apply to the CLIENT's remedy under the Performance Guarantee as such is limited by Section 4.8.

10.5 As to Patents and Copyrights:

(a) SIEMENS will, at its own expense, defend or at its option settle any suit or proceeding brought against the CLIENT in so far as it is based on an allegation that any Work (including parts thereof), or use thereof for its intended purpose, constitutes an infringement of any United States patent or copyright, if SIEMENS is promptly provided notice and given authority, information, and assistance in a timely manner for the defense of said suit or proceeding. SIEMENS will pay the damages and costs awarded in any suit or proceeding so defended. SIEMENS will not be responsible for any settlement of such suit or proceeding made without its prior written consent. In case the Work, or any part thereof, as a result of any suit or proceeding so defended is held to constitute infringement or its use by the CLIENT is enjoined,

## PERFORMANCE CONTRACTING AGREEMENT

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SIEMENS will, at its option and its own expense, either: (i) procure for the CLIENT the right to continue using said Work; (ii) replace it with substantially equivalent non-infringing Work; or (iii) modify the Work so it becomes non-infringing.

(b) SIEMENS will have no duty or obligation to the CLIENT under Section 10.5(a) to the extent that the Work is: (i) supplied according to the CLIENT's design or instructions, wherein compliance therewith has caused SIEMENS to deviate from its normal course of performance; (ii) modified by the CLIENT or its contractors after delivery; or, (iii) combined by the CLIENT or its contractors with items not furnished hereunder, and by reason of said design, instruction, modification, or combination, a suit is brought against the CLIENT. If by reason of such design, instruction, modification or combination, a suit or proceeding is brought against SIEMENS, unless expressly prohibited by law, the CLIENT shall protect SIEMENS in the same manner and to the same extent that SIEMENS has agreed to protect the CLIENT under the provisions of Section 10.5(a) above.

(c) THIS SECTION 10.5 IS AN EXCLUSIVE STATEMENT OF ALL THE DUTIES OF THE PARTIES RELATING TO PATENTS AND COPYRIGHTS, AND DIRECT OR CONTRIBUTORY PATENT OR COPYRIGHT AND OF ALL THE REMEDIES OF THE CLIENT RELATING TO ANY CLAIMS, SUITS, OR PROCEEDINGS INVOLVING PATENTS AND COPYRIGHTS. Compliance with Section 10.5 as provided herein shall constitute fulfillment of all liabilities of the Parties under the Agreement with respect to the intellectual property indemnification.

10.6 The Parties acknowledge that the price for which SIEMENS has agreed to perform the Work and obligations under this Agreement was calculated based upon the foregoing allocations of risk, and that each Party has expressly relied on and would not have entered into this Agreement but for such allocations of risk.

### Article 11-Hazardous Materials Provisions

11.1 The Work does not include directly or indirectly performing or arranging for the detection, testing, handling, storage, removal, treatment, transportation, disposal, monitoring, abatement or remediation of any contamination of any Facility at which Work is performed and any soil or groundwater at the Facility by petroleum or petroleum products (collectively called "Oil"), asbestos, PCBs or hazardous, toxic, radioactive or infectious substances, including any substances regulated under RCRA, CERCLA or any other Applicable Law (collectively called "Hazardous Materials"), including without limitation: ionization smoke detectors, ballasts, mercury bulb thermostats, used oil, contaminated filters, contaminated absorbents, and refrigerant. Except as expressly disclosed pursuant to Section 11.2, the CLIENT represents and warrants that, to the best of its knowledge following due inquiry, there are no Hazardous Materials or Oil present where the Work is to be performed. SIEMENS will notify the CLIENT immediately if it discovers or reasonably suspects the presence of any previously undisclosed Oil or Hazardous Material. All Services have been priced and agreed to by SIEMENS in reliance on the CLIENT's representations as set forth in this Article. The discovery or reasonable suspicion of Hazardous Materials or hazardous conditions at a Facility where SIEMENS is to perform Work, or of contamination of the Facility by Oil or Hazardous Materials not previously disclosed pursuant to Section 11.2, shall entitle SIEMENS to suspend the Work immediately, subject to mutual agreement of terms and conditions applicable to any further Work, or to terminate the Work and to be paid for Work previously performed.

11.2 The CLIENT warrants that, prior to the execution of the Agreement, it notified SIEMENS in writing of any and all Oil or Hazardous Materials, to the best of its knowledge following due inquiry, known to be present, potentially present or likely to become present at the Facility and provided a copy of any Facility safety policies and information, including but not limited to lock-out and tag procedures, chemical hygiene plan, material safety data sheets, and other items covered or required to be disclosed or maintained by Applicable Law.

11.3 Regardless of whether Oil or Hazardous Material was disclosed pursuant to Section 11.2, the CLIENT shall be solely responsible for properly testing, abating, encapsulating, removing, disposing, remedying or neutralizing such Oil or Hazardous Materials, and for the costs thereof. Even if an appropriate change order has been entered into pursuant to Section 11.1, SIEMENS shall have the right to stop the Work until the Facility is free from Oil or Hazardous Materials. In such event, SIEMENS will receive an equitable extension of time to complete the Work, and compensation for delays caused by Oil or Hazardous Materials remediation. In no event shall SIEMENS be required or construed to take title, ownership or responsibility for such Oil or Hazardous Materials. The CLIENT shall sign any required waste manifests in conformance with all government regulations, listing the CLIENT as the generator of the waste. If someone other than the CLIENT is the generator of the waste, the CLIENT shall arrange for such other person to sign such manifests.

11.4 Except where expressly prohibited by Applicable Law, for separate consideration of \$10 and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the CLIENT shall indemnify, defend and hold SIEMENS harmless from and against any damages, losses, costs, liabilities or expenses (including attorneys'

## PERFORMANCE CONTRACTING AGREEMENT

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fees) arising out of any Oil or Hazardous Materials or from the CLIENT's breach of, or failure to perform its obligations under this Article.

11.5 For purposes of this Article 11, in the context of the phrase "to the best of its knowledge following due inquiry"; "knowledge" means actual awareness of the facts by the CLIENT's directors, officers, employees or agents, or the presence of relevant information contained in the CLIENT's books or records; and, "due inquiry" means inquiry of those persons under the CLIENT's control who should have knowledge of the subject matter of such inquiry.

### Article 12-Miscellaneous Provisions

12.1 Notices between the Parties shall be in writing and shall be hand-delivered or sent by certified mail, express courier, or acknowledged telefax properly addressed to the appropriate party. Any such notice shall be deemed to have been received when delivered in-person or when sent by telefax, or five (5) business days subsequent to deposit in the U.S. mails, or one (1) day after deposit with express courier.

12.2 Neither the CLIENT nor SIEMENS shall assign or transfer any rights or obligations under this Agreement, except that either party may assign this Agreement to its affiliates and SIEMENS may use subcontractors in the performance of the Work or Services. Nothing contained in this Agreement shall be construed to give any rights or benefits to anyone other than the CLIENT and SIEMENS without the express written consent of both Parties.

12.3 This Agreement shall be governed by and construed in accordance with the laws of the state or commonwealth within which the Facilities are located.

12.4 This Agreement and all provisions of this Agreement allocating responsibility or liability between the Parties shall survive the completion of the Work, the Services, and the termination of this Agreement.

12.5 Unless contrary to Applicable Law and with the exception of disputes arising under Article 4 or Article 9, all disputes not resolved by negotiation between the Parties shall be resolved in accordance with the Commercial Rules of the American Arbitration Association in effect at that time, except as modified herein. All disputes shall be decided by a single arbitrator. A decision shall be rendered by the arbitrator no later than nine months after the demand for arbitration is filed, and the arbitrator shall state in writing the factual and legal basis for the award. No discovery shall be permitted. The arbitrator shall issue a scheduling order that shall not be modified except by the mutual agreement of the Parties. Except as provided in Article 8.4, the arbitrator shall have no authority to award, and shall not award, attorneys' fees. Judgment may be entered upon the award in the highest state or federal court having jurisdiction over the matter.

12.6 SIEMENS' performance of the Work and Services is expressly conditioned on the Parties assenting to all of the terms of this Agreement, notwithstanding any different or additional terms contained in any writing at any time submitted or to be submitted by a Party to the other Party relating to the Work or Services, even if signed by the Parties, unless the written statement expressly indicates that such terms supersede the terms of this Agreement.

12.7 Any provision of this Agreement found to be invalid, unlawful or unenforceable by a court of law shall be ineffective to the extent of such invalidity, and deemed severed herefrom, without invalidating the remainder of this Agreement. All other provisions hereof shall remain in full force and effect.

12.8 The waiver by a party of any breach by the other party of any term, covenant or condition hereof shall not operate as a waiver of any subsequent breach hereof. No waiver shall operate or be effective unless made in writing and executed by the party to be bound thereby.

12.9 In the event that Applicable Law or the CLIENT requires that SIEMENS procure a performance bond and/or a payment bond, SIEMENS shall provide a performance and payment bond in the amount of \$2,846,439. The performance and payment bond will solely apply to the Work performed during the Construction Period and to the required statutory lien filing period thereafter. The performance and payment bond will not apply to any of the obligations included in the Performance Assurance, Exhibit C. Furthermore, the CLIENT's funding source may be named as "Co-Obligee" on the performance bond if so requested by the CLIENT.

### Article 13-Maintenance Services Program

## PERFORMANCE CONTRACTING AGREEMENT

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13.1 If applicable, the scope of Services provided by SIEMENS for the Maintenance Services Program is stated in Exhibit A.

13.2 The CLIENT represents that all equipment not installed by SIEMENS under this Agreement and subject to a MSP is in satisfactory working condition. SIEMENS will have inspected all such equipment within the first thirty (30) days of MSP commencement or no later than the first scheduled inspection. Testing and inspection will not be deemed to be complete until all such equipment has been so tested and inspected.

13.3 If the equipment is altered or moved by any person, including the CLIENT, other than SIEMENS or a person authorized by SIEMENS, the CLIENT shall immediately notify SIEMENS in writing, and SIEMENS reserves the right to perform a reacceptance test on, or if necessary a re-commissioning of, the system at the CLIENT's expense.

13.4 If SIEMENS reasonably determines as a result of such inspection and/or testing that any equipment requires repair or replacement, the CLIENT will be so notified and shall take corrective action within thirty (30) days, or such equipment shall be removed from coverage hereunder without further action by the Parties. SIEMENS is not liable or responsible for the continued testing, maintenance, repair, replacement or operating capabilities of any portion of the equipment until it has been inspected and/or tested and has been, if necessary, restored to an acceptable initial condition at the CLIENT's sole expense. Any services provided by SIEMENS in the course of such restoration will be separately charged on a time and materials basis, and not included in fees paid hereunder. If individual items of equipment cannot, in SIEMENS' sole determination, be properly repaired or replaced due to age, obsolescence, lack of availability of refrigerant gas, halon gas, necessary parts, materials, compatibility or otherwise, or as a result of excessive wear or deterioration, SIEMENS may, within ten (10) days of such inspection, give written notice that it is withdrawing such items from coverage under the MSP and adjust the MSP payments due hereunder accordingly.

13.5 If the removal of equipment from coverage would compromise or impair the integrity of the Work, Services or compliance with law of any system, then SIEMENS will provide a written statement thereof for execution by the CLIENT. The CLIENT's failure to execute such statement within ten (10) days will void the MSP and release SIEMENS from any further obligations with respect to the MSP.

13.6 If the MSP scope of Services provides for equipment maintenance, repairs and/or replacements of equipment by SIEMENS, those Services are limited to restoring the proper working condition of such equipment. SIEMENS will not be obligated to provide replacement equipment that represents significant capital improvement compared to the original. Exchanged components become the property of SIEMENS, except Hazardous Materials, which under all circumstances remain the property and responsibility of the CLIENT.

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## PERFORMANCE CONTRACTING AGREEMENT

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### ADDENDUM 1 – INSURANCE REQUIREMENTS

For the purposes of this Addendum, SIEMENS shall be referred to as "CONTRACTOR" and the CLIENT shall be referred to as the "CITY"

1. **COMMENCEMENT OF WORK.** CONTRACTOR and all subcontractors shall not commence work under this Agreement until all certificates and endorsements have been received and approved by the CITY. CONTRACTOR shall be responsible to collect and maintain all insurance from all subcontractors. All subcontractors shall obtain and maintain the same insurance as required of CONTRACTOR. All insurance required by this Agreement shall contain a Statement of Obligation on the part of the carrier to notify the CITY of cancellation, material changes or termination at least thirty (30) days in advance. CONTRACTOR is also aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Workers' Compensation, or undertake self-insurance in accordance with the provisions of that Code, and will comply with such provisions before commencing the performance of the work of this Contract.
2. **WORKERS COMPENSATION INSURANCE.** For the duration of this Agreement, CONTRACTOR and all subcontractors shall maintain Workers Compensation Insurance in the amount and type required by California law, if applicable for the protection of its employees during the progress of the work. The insurer shall waive its rights of subrogation against the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees. The insurer shall issue a certificate and endorsement to the policy evidencing the same. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.
3. **INSURANCE AMOUNTS.** CONTRACTOR shall maintain the following insurance for the duration of this Agreement:
  - (a) Commercial general liability, not excluding XCU, and including mobile equipment, if applicable, in an amount not less than \$5,000,000 per occurrence; (claims made and modified occurrence policies are not acceptable); Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
  - (b) Automobile liability, including mobile equipment if applicable, in an amount not less than \$1,000,000 combined single limit; (claims made and modified occurrence policies are not acceptable); Insurance companies must be acceptable to CITY and have an AM Best's Guide Rating of A-, Class VII or better, as approved by the CITY.
  - (c) Excess liability coverage shall be provided for any underlying policy that does not meet the insurance requirements set forth herein; Excess liability coverage shall be Follows Form to the underlying policies. (claims made and modified occurrence policies are not acceptable) Insurance companies must be acceptable to CITY and have a Best's Guide Rating of A-Class VII or better, as approved by the CITY.
4. An Additional Insured Endorsement, ongoing and products-completed operations, for the policy under section 3(a), shall designate the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees as additional insureds for liability arising out of work or operations performed by or on behalf of the CONTRACTOR. Coverage shall not exclude XCU, and shall include mobile equipment, if applicable. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.
5. An Additional Insured Endorsement for the policy under section 3(b), including mobile equipment if applicable, shall designate the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees as additional insureds for automobiles owned, leased, hired, or borrowed by the CONTRACTOR. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.
6. In the event any of CONTRACTOR'S underlying policies do not meet policy limits within the insurance requirements, CONTRACTOR shall provide the schedule of underlying policies for a Follows Form excess liability policy, state that the excess policy follows form on the insurance certificate, and an additional insured endorsement for the excess liability policy under section 4 designating the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers,



## **PERFORMANCE CONTRACTING AGREEMENT**

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agents and employees as additional insured's. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.

7. For any claims related to this Agreement, CONTRACTOR'S insurance coverage shall be primary insurance as respects the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees.

8. Any insurance or self-insurance maintained by the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees shall be excess of the CONTRACTOR'S insurance and shall not contribute with it. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.

9. All insurance policies must be endorsed to provide that the insurer will waive all rights of subrogation against the CITY and its officers, officials, employees, agents, volunteers, and consultants for this Contract, and all public agencies from whom permits will be obtained and their directors, officers, agents and employees. CONTRACTOR shall provide to CITY proof of insurance and endorsement forms that conform to CITY's requirements, as approved by the CITY.

10. If City sustained a loss for which it intends to submit a claim, then, at any time, CITY or its representatives shall have the right to inspect and receive the original or a certified copy of all said policies of insurance, including certificates and endorsements. CONTRACTOR shall pay the premiums on the insurance hereinabove required.

11 If CONTRACTOR maintains higher insurance limits than the minimums shown above, CONTRACTOR shall provide coverage for the higher insurance limits otherwise maintained by the CONTRACTOR

## **Article 1: Scope of Work**

1.1 *Description:* Except as otherwise expressly provided herein, SIEMENS shall provide each and every item of cost and expense necessary for implementation of the FIMS described in Section 1.2, below. Work will be based on California Prevailing Wage requirements as approved by the CLIENT. The CLIENT to provide adequate site access and appropriate area on site for contractor staging and storage.

As required by California Law, SIEMENS and its subcontractors must be registered with the California Department of Industrial Relations pursuant to Labor Code Section 1725.5. SIEMENS shall be responsible for its compliance in all respects with the Prevailing Wage Law, including the payment of the prevailing wage rates to all the laborers involved, and with California Labor Code Section 1770 et seq., including the keeping of all records required by the provisions of Labor Code Section 1776 and the implementing administrative regulations. SIEMENS shall submit payroll records to the Labor Commissioner pursuant to Labor Code section 1771.4(a)(3) and shall comply with the job site notices posting requirements established by the Labor Commissioner pursuant to Title 8, California Code of Regulations Section 16461(e) or other regulation promulgated pursuant to Labor Code Section 1771.4(a)(2). Pursuant to Labor Code Section 1771.4, this project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations. CLIENT shall be a third party beneficiary of the forgoing covenant with rights to enforce the same as against SIEMENS.

1.2 *Specific Elements:* The Work shall include the following:

### **1.2.1 Lighting Upgrade**

1. Provide necessary supporting documents for the Onsite Energy Corporation, Local Capacity Requirements ("LCR") rebate. Coordinate with Onsite Energy prior to installation for rebate pre-inspection if required. CLIENT will sign the Onsite Energy Corporation, LCR Customer Incentive Agreement before SIEMENS can proceed on the Work.
2. Provide necessary supporting documents for rebates to the appropriate agencies. Coordinate with rebate providers prior to installation for rebate pre-inspection if required.
3. Provide lighting upgrades as shown in Appendix 1:
  - a) Remove and dispose of existing Fluorescent lamps and ballasts and provide and install new direct wire LED equivalent lamps as shown in Appendix 1. Fixtures will be rewired to accept direct voltage to the sockets. Reflective surfaces and lenses will be wiped to remove dirt and dust.
  - b) Remove and dispose of existing Compact Fluorescent, Incandescent, Metal Halide, High Pressure Sodium and Induction lamps and provide and install specific upgrades in Appendix 1.
4. Lighting upgrades will occur at the following locations.

Exhibit A - Scope of Work and Services

<b>Location</b>	<b>Address</b>
Police Station	11301 Acacia Parkway, Garden Grove CA 92840
Juvenile Justice	11301 Acacia Parkway, Garden Grove CA 92840
Property & Evidence	11301 Acacia Parkway, Garden Grove CA 92840
Police Annex	11400 Stanford Ave, Garden Grove CA 92840
City Hall	11222 Acacia Parkway, Garden Grove CA 92840
Gem Theatre	12852 Main st. Garden Grove CA 92840
Amphitheatre	12762 Main St, Garden Grove CA 92840
Courtyard Center + Activity Center	12732 Main st. Garden Grove, CA 92840
Community Meeting Center, H. Louis Lake Senior Center	11300 Stanford Ave, Garden Grove CA 92840
Buena Clinton	12661 Sunswept Ave, Garden Grove CA 92843
Municipal Service Center	13802 Newhope St., Garden Grove CA 92843
Fire Station #1	11301 Acacia Parkway, Garden Grove CA 92840
Fire Station #2	11805 Gilbert st., Garden Grove CA 92841
Fire Station #3	12132 Trask ave., Garden Grove CA 92843
Fire Station #4	12191 Valley View st., Garden Grove CA 92845
Fire Station #5	12751 Western ave., Garden Grove CA 92841
Fire Station #7	14162 Forsyth Ln, Garden Grove CA 92844
Sports and Rec + Pump house	9301 Westminster blvd, Garden Grove CA 92844
Atlantis	9301 Westminster ave. Garden Grove CA 92844
Garden Grove Park (not including	9301 Westminster blvd, Garden



## Exhibit A - Scope of Work and Services

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Musco/Stadium lighting)	Grove CA 92844
Chapman Sports Complex (not including Musco/Stadium lighting)	11990 Knott St, Garden Grove CA 92841
Woodbury Park	13800 Rosita pl., Garden Grove CA 92843
West Grove Park	5372 Cerulean Ave, Garden Grove CA 92845
Village Green Park	12852 Main St, Garden Grove CA 92840
Eastgate Park	12001 St. Mark St., Garden Grove CA 92845
Gutosky Park	9201 Ferris Ln, Garden Grove CA 92841
Magnolia Park	11402 Magnolia ave., Garden Grove CA 92841
Faylane Park	11700 Seacrest Dr., Garden Grove CA 92840
Civic Center Parking lot	11300 Stanford Ave, Garden Grove CA 92840
Library Parking lot	11300 Stanford Ave, Garden Grove CA 92840

5. Work to be installed in accordance with applicable Title 24 requirements.
6. Title 24 compliance paperwork, inspections and testing
7. Work shall be performed during normal business hours (Monday through Friday 7:00 am to 5:00 pm). Weekends or overtime hours are not included in our labor assumptions.

### 1.2.1.1 Exclusions and Clarifications

1. Permit fees will be excluded. City to waive fees
2. The scope for this FIM is based on the lighting retrofits described above and as shown in Appendix 1. SIEMENS has noted some areas which currently have low light levels and which still may not meet necessary lighting standards post-FIM implementation. For these and other such areas identified during the Construction Period, SIEMENS will provide recommendations to CLIENT for addressing light level issues and provide pricing in the form of a change order(s) to scope of work and savings calculations for the proposed additional work on a time-and-material basis.

## Exhibit A - Scope of Work and Services

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Post-implementation lighting levels will be documented after Acceptance, with the results provided to CLIENT for further consideration.

3. SIEMENS shall not be responsible for repairs to existing damaged ceiling tiles or walls. Repairs or upgrades to existing drop ceilings or fixture supports to bring them up to local building codes are not included.
4. SIEMENS' scope is limited to replacing the fixtures identified in Appendix 1 or working inside the fixtures identified therein. Correction of any pre-existing defects or non-conformities with the applicable Codes in the electrical wiring to the fixture is not included.
5. Since the incentives are paid for by a third party, SIEMENS cannot guarantee the incentives, but will provide work necessary in a timely manner to help to secure the funds. The CLIENT acknowledges that: (i) any incentive that may be available to the CLIENT to pay the costs of the work will be granted by a third party outside the control of SIEMENS; (ii) lack of availability of such incentives shall not relieve the CLIENT of its payment obligations under this Agreement.
6. Entire scope was priced as universal voltage (120/277V), 480V fixtures/drivers are not included in the scope.
7. Emergency circuits/drivers are not included. If additional LED emergency drivers are needed, SIEMENS will submit a change order for additional work.
8. Scope assumes 1 for 1 retrofit and/or replacement only, any change in layout or not reasonably foreseeable electrical issues are not included in the scope.
9. SIEMENS shall not be responsible for repairs to existing, non-functioning sensors not identified for replacement in the scope of Work.
10. Design services i.e. CAD drawings/reflective ceilings plans are not included in the scope of work.
11. Calibration of existing sensors is not included.
12. Replacement of existing cracked or discolored fixture lenses is not included.
13. Any extra or spare parts are not included.
14. Lighting control acceptance testing is not included.
15. No dimmable ballasts are included in the Work.
16. Any room(s)/floor (s) or area not identified in Appendix 1 are not included

## Exhibit A - Scope of Work and Services

17. Repair, replacement or re-commissioning of existing damaged, defective, or obsolete motion sensors, time clocks, switches or energy management systems are not included.
18. The repair or replacement of fixture locking devices is not included. For example, tamperproof screws or locking fastener type lens or door frame.

### 1.2.2 Package Unit Replacement

Site	Mark	Capacity Tons	Type	Existing Make/Model
Public Works	AC 6	3	Package Unit	Make: Carrier Model: 48GXN036060501— Serial: 4704G51114
Public Works	AC 7	3	Package Unit	Make: Carrier Model: 48GXN036060501-- Serial: 4704G21282
Public Works	AC 8	5	Package Unit	Make: Carrier Model: 48GXN060090511-- Serial: 4904G11999
Public Works	AC 9	3.5	Package Unit	Make: Carrier Model: 48GXN042060501-- Serial: 2204G31400
Fire Station #5	AC-1	5	Package Unit	Make: Carrier Model: 48GSN-060- 090301 Serial: 1404G31236
Fire Station #5	AC-2	5	Package Unit	Make: Carrier Model: 48GSN-060- 090301 Serial: 1404G41552
Gem Theater	AC-3	6	Package Unit	Make: Carrier Model: 48TJD007--- 521-- Serial: 3098G21619
Gem Theater	AC-5	6	Package Unit	Make: Carrier Model: 48TJD007--- 521-- Serial: 1199G21264
Teen Center	AC-1	5	Split	Make: Payne Model: 5930j060-A Serial: 0292E00590
Magnolia Park Neighborhood Center	AC-1	3.5	Split	Make: Carrier Model: 38CKC042310 Serial: 2399E22922
Magnolia Park Neighborhood Center	AC-2	3	Split	Make: Carrier Model: 38CKC036--- 341--

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## Exhibit A - Scope of Work and Services

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				Serial: 2299E07859
Sports & Recreation Center	AC-1	25	Package Unit	Make: Carrier Model: 48HGF028AC-601AH Serial: 2404F39457
Sports & Recreation Center	AC-2	25	Package Unit	Make: Carrier Model: 48HGF028AC-601AH Serial: 2404F39458
Sports & Recreation Center	AC-3	12	Package Unit	Make: Carrier Model: 48HJD012--- 671-- Serial: 0105G40529
Sports & Recreation Center	AC-4	10	Package Unit	Make: Carrier Model: 48HJD009--- 651-- Serial: 3505G30754

### SIEMENS will:

1. Provide necessary supporting documents for the Onsite Energy Corporation, Local Capacity Requirements ("LCR") rebate. Coordinate with Onsite Energy prior to installation for rebate pre-inspection if required. CLIENT will sign the Onsite Energy Corporation, LCR Customer Incentive Agreement before SIEMENS proceeds with the Work.
2. Provide required mechanical and electrical permits.
3. Work shall be performed in accordance with latest California adopted Codes, local codes and applicable ordinances having jurisdictions over this site.
4. Demo, remove and dispose of the existing packaged HVAC units listed above (including compressor oil and refrigerant per EPA guidelines). Disconnect existing electrical, piping and ductwork connections.
5. Modify existing pad as/if needed for ground mounted units. Provide curb adaptors as necessary for roof mounted units.
6. Furnish and install the new packaged HVAC replacement units ("New Units"), of the same size as existing unit, meeting 2016 Title 24 requirements. Existing units' sizes are listed above. New Units are to be of equal or lesser weight than the existing units.
7. Reconnect New Units to existing electrical wiring, piping and ductwork.
8. Provide for connection and termination of new copper condensate drain lines to nearest roof drain

## Exhibit A - Scope of Work and Services

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9. Furnish and install new disconnect switches for the New Units.
10. Tie New Units to existing programmable SIEMENS' thermostats. If an existing thermostat is not a SIEMENS' thermostat, then replace with a new SIEMENS thermostat.
11. Provide commissioning/start-up for the New Units.
12. Provide air-flow measurements, at the supply and return for New Units. Verify post air flow matches pre measurements.
13. Provide as built drawings and O&M manuals in pdf
14. Work shall be performed during normal business hours (Monday through Friday 7:00 am to 5:00 pm).

### **Assumptions:**

1. Existing piers that the existing packaged units are set on are attached to the roof structure

### **Exclusions and Clarifications:**

1. Permit fees are excluded. City to waive fees
2. Since the incentives are paid for by a third party, SIEMENS cannot guarantee the incentives, but will provide work necessary in a timely manner to help to secure the funds. The CLIENT acknowledges that: (i) any incentive that may be available to the CLIENT to pay the costs of the work will be granted by a third party outside the control of SIEMENS; and (ii) lack of availability of such incentives shall not relieve the CLIENT of its payment obligations under this Agreement.
3. The Work does not include any ADA upgrades.
4. Removal or installation of fire life safety equipment is excluded. SIEMENS will coordinate with CLIENT's consultant for any work related to SIEMENS' Work.
5. Major structural work such as reinforcing of structural members below the roof line is excluded from the cost of the project.
6. SIEMENS is not responsible for clearance requirements.
7. Any Hazardous Materials at the project site shall be treated in accordance with Article 11 of the Performance Contracting Agreement. All areas that contain Hazardous Materials must be tagged by CLIENT.
8. Painting and patching not related to SIEMENS' Work is excluded.

## Exhibit A - Scope of Work and Services

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9. Repair of any faulty or non-code compliant wiring is excluded.
10. No testing and air balancing for any unit other than the New Units is included.
11. No premium time hours are included. Premium time includes all hours before 7 a.m. and after 5 p.m. Monday-Friday.
12. No repair or replacement of existing ductwork is included
13. SIEMENS is not responsible for remedying any pre-existing comfort conditions due to under-sizing of existing equipment. SIEMENS' scope assumes that the units are adequately sized for current loads to maintain comfort conditions, and no additional load calculations were performed.
14. SIEMENS is not responsible for remedying any existing duct leakage issues in the building.
15. Repair/replacement of any damaged structural membranes caused by water, or repair/replacement of any other latent damage to existing structural members is not included.
16. Any work related to the insulation outside the ductwork is not included.
17. The Work does not include responsibility for system design deficiencies, including but not limited to poor air distribution, water flow imbalances, system equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s).

### 1.2.3 Chiller Replacement

Location	Mark	Type	Capacity Ton	Existing Make/Model
City Hall	CH-1	Water-Cooled Chiller; Screw	118	Carrier Model # 30HXC126RYE540AA Serial # 3202Q01883

1. Provide necessary supporting documents for the Onsite Energy Corporation, Local Capacity Requirements ("LCR") rebate. Coordinate with Onsite Energy prior to installation for rebate pre-inspection if required. Client will sign the Onsite Energy Corporation, LCR Customer Incentive Agreement before SIEMENS can proceed on the Work.
2. Provide required mechanical and electrical permits.
3. Work shall be performed in accordance with 2016 Title 24 and latest California adopted Codes, local codes and applicable ordinances having jurisdictions over this site.

## Exhibit A - Scope of Work and Services

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4. Provide inspection, calibration and verification of performance of the refrigerant monitoring system.
5. Dismantle and remove the above existing chiller from site, haul away and dispose.
6. Furnish and install new energy efficient water cooled chiller, equal in size to the existing chiller. Chiller will be set on neoprene pads to match existing conditions
7. Modify existing concrete pad as/if needed per requirements of new chiller.
8. Connect to existing supply and return piping.
9. Provide and install new disconnect and connect to existing 208V electrical service.
10. Provide start up and commissioning of the new chiller. Provide pre-replacement measurements of water flow at chiller supply and return. Verify that post-replacement measurements of water flow match the pre-replacement measurements.
11. Provide as built drawings and O&M manuals in pdf
12. Work to be performed during non-regular business hours (Friday-Sunday, Holidays)

### Exclusions and Clarifications:

1. Permit fees will be excluded. City to waive fees
2. Since the incentives are paid for by a third party, SIEMENS cannot guarantee the incentives, but will provide work necessary in a timely manner to help to secure the funds. The CLIENT acknowledges that: (i) any incentive that may be available to the CLIENT to pay the costs of the work will be granted by a third party outside the control of SIEMENS; and (ii) lack of availability of such incentives shall not relieve the CLIENT of its payment obligations under this Agreement.
3. Any Hazardous Materials at the Project site shall be treated in accordance with Article 11 of the Performance Contracting Agreement. All areas that contain Hazardous Materials must be tagged by CLIENT.
4. Full replacement of the refrigerant monitoring system is excluded.
5. Provisions for temporary cooling are not included.
6. Provisions for temporary power are not included.
7. Repair of any faulty or non-code wiring not included.
8. SIEMENS is not responsible for remedying any preexisting comfort conditions due to undersizing of existing equipment. SIEMENS' scope assumes that the

## Exhibit A - Scope of Work and Services

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chiller is adequately sized for current load to maintain comfort conditions, and no additional sizing calculations were performed.

9. Connections to existing fire/smoke alarm system or removal and installation of fire life safety equipment are not included. SIEMENS will coordinate with CLIENT's consultant for any work related to SIEMENS Work.
10. The Work does not include responsibility for system design deficiencies, including but not limited to poor air distribution, water flow imbalances, system equipment and component obsolescence, electrical failures, unserviceable equipment and operating the system(s).

### 1.2.4 Boiler Replacement

Location	Type	Existing Make/Model
Police Department	Hi Delta Hydronic Boiler	Raypak Model # H9-1262 Serial # 0210199847

1. Work shall be performed in accordance with 2016 Title 24 and latest California adopted Codes, local codes and applicable ordinances having jurisdictions over this site.
2. Provide required mechanical and electrical permits.
3. Dismantle and remove the above existing boiler from site, haul away and dispose.
4. Provide and install new boiler to match existing capacity meeting applicable codes.
5. Modify existing pad as/if needed per requirements of new boiler.
6. Provide and install new disconnect and connect to existing electrical service.
7. Connect new boiler to existing outgoing and incoming piping, pumps, gas lines and condensate lines.
8. Connect new boiler to existing SIEMENS' energy management system.
9. Provide for start-up and commissioning of the new boiler. Provide pre-replacement measurements of water flow at the boiler supply and return. Verify that post-replacement measurements of water flow match the pre-replacement measurements.
10. Provide as built drawings and O&M manuals in pdf



11. Work to be performed during the weekends

**Exclusions and Clarifications:**

1. Permit fees are excluded. City to waive fees
2. Provisions for temporary heating are not included.
3. Provisions for temporary power are not included.
4. Any Hazardous Materials at the Project site shall be treated in accordance with Article 11 of the Performance Contracting Agreement. All areas that contain Hazardous Materials must be tagged by CLIENT.
5. Repair of any faulty or non-code wiring or remediation of any existing defective piping are excluded.
6. Connections to existing fire/smoke alarm system or removal and installation of fire life safety equipment are not included. SIEMENS will coordinate with CLIENT's consultant for any work related to SIEMENS' Work.
7. SIEMENS is not responsible for remedying any preexisting comfort conditions due to undersizing of existing equipment. SIEMENS' scope assumes that the boiler is adequately sized for current loads to maintain comfort conditions, and no additional load calculations were performed.
8. The Work does not include responsibility for system design deficiencies, including but not limited to poor air distribution, water flow imbalances, system equipment and component obsolescence, electrical failures, unserviceable equipment, and operating the system(s), unless otherwise stated in this Work.

**1.2.5 Refurbish AHUs**

Location	Mark	Existing Make/Model
City Hall-Mech Room	AC-1	PACE 36AF
City Hall-Mech Room	MZ-1	PACE A20-AF
Police Department- Penthouse	AH-1	Thermal MT 501-H

1. Provide necessary supporting documents for rebates to the appropriate agencies. Coordinate with rebate providers prior to installation for rebate pre-inspection if required.

## Exhibit A - Scope of Work and Services

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2. For the City Hall AC-1, confirm existing fan size is adequate by performing a CFM load calculation. If the fan size is not adequate Siemens has included an allowance to increase the CFM from 34,500 to 40,000.
3. Recondition existing dampers on outside air, return air and exhaust air. Provide new linkages where broken or beyond repair
4. Install new electrical actuators for the outside air, return air and mixed air dampers
5. Remove existing filters and provide new higher efficiency filters.
6. Provide and install new supply fan for the City Hall-AC-1 by removing and reinstalling the existing louvers, dampers.
7. Refurbish the return fan for the City Hall-AC-1 by cleaning the fan wheel and replacing the shaft, bearings and wire wheeling.
8. Provide and install inverter rated premium efficiency motors for the supply fan and return fan
9. Lubricate fan and motor bearings for MZ-1 and PD AH-1
10. Replace belts and sheaves for MZ-1 and PD AH-1
11. Clean AHU coils, condensate drain lines and condensate pan for MZ-1 and PD AH-1.
12. For City Hall AC-1, replace cooling coils and drain pan. Reconnect new drain pan to existing drain line.
13. Install new control valves for chilled water and hot water to air handling unit coils
14. Replace any damaged insulation of chilled water and/or hot water piping within the mechanical room
15. Provide air-flow measurements, at the supply and return for the AHU's. Verify post-refurbishment air flow matches pre-refurbishment measurements.
16. Provide for start-up and commissioning of the unit and VFD.
17. SIEMENS proposal is contingent upon the refurbishment of both AHUs serving City Hall being performed over the same weekend.
18. Work to be performed during non-regular business hours (Friday-Sunday, Holidays).

### Exclusions and Clarifications:

## Exhibit A - Scope of Work and Services

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1. Since the incentives are paid for by a third party, SIEMENS cannot guarantee the incentives, but will provide work necessary in a timely manner to help to secure the funds. The CLIENT acknowledges that: (i) any incentive that may be available to the CLIENT to pay the costs of the work will be granted by a third party outside the control of SIEMENS; and (ii) lack of availability of such incentives shall not relieve the CLIENT of its payment obligations under this Agreement.
2. Provisions for temporary heating/cooling are not included.
3. Provisions for temporary power are not included.
4. Any Hazardous Materials at the Project site shall be treated in accordance with Article 11 of the Performance Contracting Agreement. All areas that contain Hazardous Materials must be tagged by CLIENT.
5. Repair of any faulty or non-code wiring or remediation of any existing defective piping are not included.
6. Connections to existing fire/smoke alarm system or removal and installation of fire life safety equipment are not included. SIEMENS will coordinate with CLIENT's consultant for any work related to SIEMENS' Work.
7. SIEMENS is not responsible for remedying any preexisting comfort conditions.
8. The Work does not include responsibility for system design deficiencies, including but not limited to poor air distribution, water flow imbalances, system equipment and component obsolescence, electrical failures, unserviceable equipment and operating the system(s), unless otherwise stated in this Work.
9. No permits are anticipated or included for the Work.

### 1.2.6 SIEMENS DESIGO Controls System

1. CLIENT to provide a port and Network IP Assignment (IP Address, Subnet Mask, Default Gateway) at each building. This is a pre-requisite for SIEMENS to connect the new controller to the existing SIEMENS BAS.
2. Migrate Staefa Talon Control System to SIEMENS Desigo Automation System at the City Hall
  - VAV Boxes
    - Demo and remove existing Staefa control devices at the VAV boxes listed below.
    - Furnish and install new SIEMENS zone controllers for the VAV boxes listed below.

## Exhibit A - Scope of Work and Services

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- Furnish and install new sensors for zone controllers including:
  - ❖ VAV damper actuators at the VAV box
  - ❖ Hot water valves at the VAV box (only if broken)
  - ❖ Room temperature sensors

**List of Zone Controllers- City Hall**

Location	Equipment
1 <sup>st</sup> Floor	VAV1-1 to VAV1-37, HP-1, HP-2
2 <sup>nd</sup> Floor	VAV2-1 to VAV2-30, CAC-1, CAC-2
3 <sup>rd</sup> Floor	VAV3-1 to VAV3-30

- Mechanical Equipment
  - Demo and remove existing Staefa control devices at the mechanical equipment listed below.
  - Furnish and install new SIEMENS controllers for the mechanical equipment listed below.
  - AH-1 and MZ-2: Install new control valves for chilled water and hot water to air handling unit coils. Install new actuators and sensors for both air handling units.
  - Cooling Tower: Install new temperature sensors
  - Chiller: Install new DP and temperature sensors
  - Boiler: Install new temperature sensors
  - For remaining sensors not listed above, reuse existing sensors for the mechanical equipment. SIEMENS has included an allowance of 20% for failed sensors. If there are any failed sensors beyond the 20% allowance, SIEMENS shall provide unit pricing to CLIENT for approval.
- Integrate all existing and new devices (based on the list of equipment below) include wiring and termination to the new Desigo™ Automation System
- Program the energy efficient sequence/parameters provided in Exhibit C, Article 7.
- Provide new computer and install Desigo CC application
- Provide start up and commissioning

## Exhibit A - Scope of Work and Services

- Develop standard application graphics

**List of Equipment-City Hall**

<b>Equipment</b>	<b>Location</b>
Single Duct VAV Air Handling Unit (AH-1)	Penthouse
Dual Duct-Multi Zone-VAV Air Handling Unit (MZ-2)	Penthouse
Boiler (B-1)	Penthouse
Chiller (CH-1)	Penthouse
Cooling Tower (CT-1)	Penthouse
Condenser Water Pump (CWP-1)	Penthouse
Chilled Water Pump (CHWP-1)	Penthouse
Hot Water Pump (HWP-1)	Penthouse
Fan Coil Unit (FCU-1)	TBD
Fan Coil Unit (FCU-2)	TBD
Fan Coil Unit (FCU-3)	TBD
Fan Coil Unit (FCU-4)	TBD
Split Unit	Roof/IT Room
Wall Mount Airflow Unit	IT Room
Wall Mount Airflow Unit	Traffic Equipment Room

3. Provide new SIEMENS Design Automation System at the following buildings

<b>Building</b>	<b># of Units</b>	<b>Unit Numbers</b>
Juvenile Justice	4	AC-1, AC-2, AC-3, AC-4
Property & Evidence Building	4	AC-1, F1, F-2, F-3
Fire Station #5	2	AC-1, AC-2
Fire Station #6	6	AC-1 to AC-6
Fire Station #7	1	AC-1
Public works	14	AC 1-14
Buena Clinton Youth & Family Center	8	SHP 1-2, 4, 5A-5B HP 7-8,10

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## Exhibit A - Scope of Work and Services

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Courtyard Center/ Activity Center	5	Courtyard AC-1, AC-2, AC-3, AC-4, Activity AC-1
Police Annex	4	AC-1, AC-2, AC-3, AC-4
Magnolia Park Neighborhood Center	2	AC-1, AC-2
Festive Amphitheatre	2	AC-1, AC-2
Teen Center	1	AC-1
Community Service Center	1	AC-1

- CLIENT to provide a port and Network IP Assignment (IP Address, Subnet Mask, Default Gateway) at each building. This is a pre-requisite for SIEMENS to connect the new controller to the existing SIEMENS BAS.
  - Demo and remove existing control panels including package unit controllers
  - Furnish and install new SIEMENS controllers including package unit controllers
  - Furnish and install new room temperature sensors for the equipment listed above
  - Integrate new controllers and sensors for the equipment listed above. Include wiring and termination to the new Desigo™ Automation System
  - Program the energy efficient sequence/parameters provided in Exhibit C, Article 7.
  - Provide start up and commissioning
  - Develop standard application graphics
4. Relocate existing thermostat to hall way at Fire Station #2
5. Control sensor testing of AHU-1 at the Police Department
- Perform functional testing of control sensors for AHU-1
  - Review findings with CLIENT and coordinate schedule for replacement of failed sensors (temperature, humidity, pressure), if any. If there are any failed valves or actuators, proposal for a change order will be presented to CLIENT for approval.
  - If the CLIENT approves the change order proposal and provided that the Project savings are sufficient to cover additional costs, furnish and install new valves and actuators

## Exhibit A - Scope of Work and Services

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- Integrate any new devices, include wiring and termination to the automation system
  - Program the energy efficient sequence/parameters provided in Exhibit C, Article 7.
  - Provide start up and commissioning
  - Develop standard application graphics
6. Connect new boiler to the existing SIEMENS Energy Management System.
  7. Migrate Insight at the Public Works SIEMENS' central workstation to Desigo CC.
  8. Work shall be performed during normal business hours (Monday through Friday 7:00 am to 5:00 pm). Weekends or overtime hours are not included in our labor assumptions.
  9. Provide as-built drawings for customer records

### **Assumptions:**

1. SIEMENS will utilize all existing conduits.

### **Exclusions and Clarifications**

1. Desigo training will not be included in this contract because CLIENT has an existing service contract with SIEMENS which includes 3 classes per year.
2. No permits or inspection fees are anticipated or provided for the controls Work.
3. Changes in proposed scope and delays in schedule due to any repairs or other issues in existing equipment, access to facility, employee clearance or other undetermined schedules will be treated in accordance with Section 7.1 of the Performance Contracting Agreement.
4. Smoke control or dampers of any kind are not included. SIEMENS will coordinate with CLIENT's consultant for any work related to SIEMENS' Work.
5. No new 120V power wiring is included (SIEMENS to tap off existing 120V power wiring)
6. Control or wiring of equipment not listed above is excluded
7. Conduit stub ups for VAV zone room thermostats are excluded
8. Air / Water Balancing of any equipment not described in this scope of Work is excluded.

## Exhibit A - Scope of Work and Services

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9. Integration to third party systems is excluded
10. No premium time hours are included. Premium time includes weekends, holidays and all hours before 7 a.m. and after 5 p.m. Monday-Friday.
11. Correction of existing code violation is excluded
12. Patching and painting of any surfaces is excluded

### 1.2.7 Plug Load Management

1. Provide Bert smart plugs for the equipment as shown in Appendix 2.
  - a) Bert Control automatically turns off loads during nights, weekends and holidays when buildings are unoccupied based on the schedule provided by the City.
  - b) Bert Smart plugs are limited to the equipment specifically shown in Appendix 2.
2. Plug load management scope is contingent upon CLIENT providing all necessary IT requirements (hardware, software, remote access, etc) as stated in the BERT Pre-Installation Software and Network setup guide. See Appendix 3.
3. Plug load management will occur at the following locations.

Location	Address
City Hall	11222 Acacia Parkway, Garden Grove CA 92840
Buena Clinton	12661 Sunswept Ave, Garden Grove CA 92843
Municipal Service Center	13802 Newhope St., Garden Grove CA 92843
Community Meeting Center, H. Louis Lake Senior Center	11300 Stanford Ave, Garden Grove CA 92840

4. Provide link to the BERT website within the SIEMENS control system
5. Work shall be performed during normal business hours (Monday through Friday 7:00 am to 5:00 pm). Weekends or overtime hours are not included in our labor assumptions.

### Exclusions:

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1. Since the incentives are paid for by a third party, SIEMENS cannot guarantee the incentives, but will provide work necessary in a timely manner to help to secure the funds. The CLIENT acknowledges that: (i) any incentive that may be available to the CLIENT to pay the costs of the work will be granted by a third party outside the control of SIEMENS; and (ii) lack of availability of such incentives shall not relieve the CLIENT of its payment obligations under this Agreement.
2. No premium time hours included.
3. No permits are anticipated or included for the Plug Load Work.

1.3 *Technical Specifications, Drawings, and Exhibits:* The Work shall be performed in accordance with the following specifications, drawings and other attachments hereto, which are specifically incorporated herein and made part hereof:

1.3.1 Appendix 1: Lighting Audit

1.3.2 Appendix 2: Plug Load Audit

1.3.3 Appendix 3: BERT Pre-Installation Software and Network setup guide

1.4 CLIENT'S Responsibilities (in addition to those in Article 6 of the Agreement):

1.4.1 CLIENT will provide access to any area that contains equipment to be measured and/or verified.

## **Article 2: Work Implementation Period**

2.1 Commencement of Work (select **one**):

2.1.1 ☐ SIEMENS shall commence the Work on \_\_\_\_\_, 20\_\_, and shall perform the Work diligently and shall complete the Work no later than \_\_\_\_\_, 20\_\_;

or,

2.1.1 ☒ SIEMENS shall commence the Work 45 calendar days from the Effective Contract Date, and shall perform the Work diligently and shall complete the Work no later than 365 calendar days from the day of commencement.

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**Article 3: Scope of Services-Performance Assurance Services Program**

- 3.1 SIEMENS will manage the Performance Guarantee consistent with the Agreement and Exhibit C. SIEMENS will provide an Annual Performance Assurance Report ninety (90) days after the end of each Annual Period.
- 3.2 Performance Assurance Services are all labor activities, site visits, monitoring and analyses necessary to calculate the Realized Annual Savings achieved by the Project, and to prepare and present the Annual Performance Assurance Report for the respective Annual Period.
- 3.3 Each Annual Performance Assurance Report shall include:
  - 3.3.1 The Measured and Verified Savings for the respective Annual Period, including supporting documentation required to complete the Measurement and Verification Plan outlined in Article 4, Exhibit C of this Agreement.
  - 3.3.2 The Realized Annual Savings achieved by the Project for each respective Annual Period.
  - 3.3.3 A comparison of the Accumulated Realized Savings and Accumulated Guaranteed Savings to determine whether there is a Savings Shortfall for the respective Annual Period, pursuant to Article 4 of the Performance Contracting Agreement.

**Article 4: Scope of Services-Maintenance Services Program**

(Please check one box only)

- ☒ CLIENT has elected to self-implement maintenance. Therefore SIEMENS shall not perform any on-going maintenance services, although the Parties may negotiate a separate agreement for such services at a later date. CLIENT agrees that it will maintain the equipment per manufacturer specifications and that it will operate the Equipment in accordance with the Contracted Baseline described in Article 7 of Exhibit C. If CLIENT fails to properly maintain or operate the Equipment, SIEMENS shall have the right to modify the Performance Guarantee pursuant to Article 4 of the Agreement.
- ☐ The follow consists of the Services to be performed by SIEMENS:

4.1

4.2

Exhibit A - Scope of Work and Services

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By signing below, this Exhibit is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT:**            **City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:**            **Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## Exhibit B – Payment Schedules

### Article 1: Payment for Scope of Work

- 1.1 **Price:** As full consideration of the Work as described in Exhibit A, Article 1: Scope of Work, the CLIENT shall pay to SIEMENS **\$2,846,439** (plus taxes, if applicable).
- 1.2 **Sufficient Funds:** The CLIENT warrants and represents that: (i) it possesses sufficient funds to pay in full the amount set forth in Section 1.1 above; (ii) such funds are on deposit with the City of Garden Grove Treasurer, and (iii) such funds have been specifically dedicated to the Project and shall not be used for any other purpose.
- 1.3 **Timely Payments:** The CLIENT agrees to pay SIEMENS per Table B.1 below. CLIENT agrees to pay all invoices submitted by SIEMENS per Article 8 of the Agreement.

**Table B.1 – FIM Work Payment Schedule**

Project Phase	Payments (\$)	Payments (%)	Schedule
Mobilization		25%	
Project Installation		70%	Billed monthly as POC
Project Retention		5%	
<b>PROJECT TOTAL:</b>		100%	<b>\$2,846,439</b>

Article 1 of Exhibit B is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT: City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS: Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## Exhibit B – Payment Schedules

### Article 2: Payment for Performance Assurance Services Program (PASP)

- 2.1 **Price:** As full consideration of the Services as described in Exhibit A, Article 3, the CLIENT shall pay to SIEMENS the amounts identified in Table B.2 plus taxes, if applicable, on the dates identified therein.
- 2.2 **Performance Assurance Services Program Term:** The term of the PASP shall commence on the Guarantee Date and shall extend for either: (a) the term of the Performance Guarantee Period where multi-year obligations are allowed; or (b) for twelve (12) month periods corresponding to the term of each Annual Period.
- 2.3 **Automatic Renewal:** Where the PASP term is limited to an Annual Period, the PASP shall automatically renew for successive Annual Periods beginning on the anniversary date of Guarantee Date. Either party may request to amend the PASP at the end of an Annual Period by giving the other party at least sixty (60) days prior written notice of such amendments and such amendment shall be mutually negotiated by the Parties and effective upon a written amendment signed by both Parties prior to commencement of the next Annual Period. Each automatic renewal shall be and remain subject to the terms and conditions of this Agreement. SIEMENS obligations under the Performance Guarantee are dependent upon and subject to the express condition that the CLIENT maintains the PASP during the entire Performance Guarantee Period.
- 2.4 **Termination:** See Section 4.7 of the Agreement.

**Table B.2 – Performance Assurance Program Payment Schedule**

Date	Annual Payments (\$) *	Notes
Annual Period 1	\$ 20,718	Billed at project acceptance
Annual Period 2	\$ 21,340	Billed at 1 <sup>st</sup> anniversary of project acceptance
Annual Period 3	\$ 21,980	Billed at 2 <sup>nd</sup> anniversary of project acceptance
Annual Period 4	\$ 22,639	Billed at 3 <sup>rd</sup> anniversary of project acceptance
Annual Period 5	\$ 23,318	Billed at 4 <sup>th</sup> anniversary of project acceptance
Annual Period 6	\$ 24,018	Billed at 5 <sup>th</sup> anniversary of project acceptance
Annual Period 7	\$ 24,738	Billed at 6 <sup>th</sup> anniversary of project acceptance
Annual Period 8	\$ 25,481	Billed at 7 <sup>th</sup> anniversary of project acceptance
Annual Period 9	\$ 26,245	Billed at 8 <sup>th</sup> anniversary of project acceptance
Annual Period 10	\$ 27,032	Billed at 9 <sup>th</sup> anniversary of project acceptance
Annual Period 11	\$ 27,843	Billed at 10 <sup>th</sup> anniversary of project acceptance
Annual Period 12	\$ 28,679	Billed at 11 <sup>th</sup> anniversary of project acceptance
Annual Period 13	\$ 29,539	Billed at 12 <sup>th</sup> anniversary of project acceptance
Annual Period 14	\$ 30,425	Billed at 13 <sup>th</sup> anniversary of project acceptance
Annual Period 15	\$ 31,338	Billed at 14 <sup>th</sup> anniversary of project acceptance
Annual Period 16	\$ 32,278	Billed at 15 <sup>th</sup> anniversary of project acceptance
Annual Period 17	\$ 33,246	Billed at 16 <sup>th</sup> anniversary of project acceptance
Annual Period 18	\$ 33,246	Billed at 17 <sup>th</sup> anniversary of project acceptance
Annual Period 19	\$ 33,246	Billed at 18 <sup>th</sup> anniversary of project acceptance

\*3% escalation annually

## Exhibit B – Payment Schedules

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Article 2 of Exhibit B is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT:**            **City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:**            **Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

## Articles and Tables

The following Articles and Tables are hereby included and made part of this Exhibit C:

Article 1	Total Guaranteed Savings
Article 2	Measurement and Verification Options
Article 3	Performance Guarantee Period Responsibilities of CLIENT
Article 4	Measurement and Verification Plan
Article 5	Baseline Data
Article 6	Utility Rate Structures and Escalation Rates
Article 7	Contracted Baseline Data
Appendix 1-	Lighting Audit
Appendix 2-	Plug Load Audit
Appendix 3-	BERT Pre-Installation Software and Network setup guide

This Exhibit C provides the methodology to be used to determine the Annual Realized Savings and the reconciliation of these calculated Savings with the Guaranteed Annual Savings for each Annual Period of the Performance Guarantee Period. The Scope of Services for the Performance Assurance Service Program is provided in Article 3 of Exhibit A.

## Article 1: Total Guaranteed Savings

**Table 1.1 – Total Guaranteed Savings (Units)**

Performance Period	Electric Energy Saved (kWh)	Electric Power Saved (kW)	Natural Gas Saved (Therms)
Construction	457,701	58.4	
Annual Period 1	1,213,659	127.1	3969.1

- 1.1 Only Annual Period 1 is shown as the energy/utility unit Savings will remain constant for each Annual Period of the Performance Guarantee Period as the CLIENT will operate the Facility in accordance with the Contracted Baseline identified in Article 7.

**Table 1.2 – Total Guaranteed Savings (Cost)**

Performance Period	Energy/Utility Savings	Operational Savings	Total Savings
Construction	\$53,261	\$6,719	\$59,980
Annual Period 1	\$136,030	\$11,816	\$147,846
Annual Period 2	\$141,471	\$12,170	\$153,641
Annual Period 3	\$147,130	\$12,535	\$159,665
Annual Period 4	\$153,015	\$12,911	\$165,927
Annual Period 5	\$159,136	\$13,299	\$172,435
Annual Period 6	\$165,501	\$13,698	\$179,199
Annual Period 7	\$172,121	\$14,109	\$186,230
Annual Period 8	\$179,006	\$14,532	\$193,538
Annual Period 9	\$186,166	\$14,968	\$201,134
Annual Period 10	\$193,613	\$15,417	\$209,030

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Annual Period 11	\$201,357	\$15,879	\$217,237
Annual Period 12	\$209,412	\$16,356	\$225,768
Annual Period 13	\$217,788	\$16,846	\$234,635
Annual Period 14	\$226,500	\$17,352	\$243,852
Annual Period 15	\$235,560	\$17,872	\$253,432
Annual Period 16	\$244,982	\$18,409	\$263,391
Annual Period 17	\$254,781	\$18,961	\$273,742
Annual Period 18	\$264,973	\$19,530	\$284,502
Annual Period 19	\$275,572	\$20,116	\$295,687
<b>TOTALS</b>	<b>\$3,817,376</b>	<b>\$303,495</b>	<b>\$4,120,870</b>

- 1.2 Table 1.2 shows the CLIENT'S guaranteed cost Savings for each Annual Period that are extrapolated from the guaranteed energy/utility unit Savings shown in Table 1.1 by multiplying the energy/utility Savings by the Baseline energy/utility rates including the stipulated Escalation Rates found in Article 6.
- 1.3 SIEMENS cannot and does not predict fluctuations in utility rates or the cost of energy. Therefore, the CLIENT and SIEMENS agree that the energy/utility cost Savings for each Annual Period will be calculated by multiplying the verified units of energy/utility Savings by the Annual Period's stipulated energy/utility rate and Escalation Rates and not the Annual Period's actual utility rate.
- 1.4 The determination of energy/utility Savings will follow current best practice, as defined in the IPMVP, or the FEMP Guidelines where required, unless otherwise agreed to by the Parties.
- 1.5 The Performance Guarantee does not operate to guarantee the Savings per-FIM. Rather, the calculation of Savings is based on aggregate performance of all of the FIMs contained in the Project. The projected value of such aggregate performance is contained in Table 1.2 above representing the Total Guaranteed Savings as monetized.

This Exhibit C, comprising 39 pages, is attached to and made a part of the Agreement between SIEMENS and the CLIENT.

**CLIENT:** City of Garden Grove

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:** Siemens Industry, Inc.

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



## **Article 2: Measurement and Verification Options**

2.1 Measurement and Verification Options: There are five measurement and verification options to measure and verify energy/utility Savings: Option A - Retrofit Isolation: Key Parameter Measurement; Option B - Retrofit Isolation: All Parameter Measurement; Option C - Whole Facility; and, Option D – Calibrated Simulation. Options A through and including D are part of the IPMVP. Option E- Stipulated is based on industry accepted engineering standards and is the Option used for purposes of calculating Operational Savings.

**Option A - Retrofit Isolation:** Key Parameter Measurement. Savings are determined by field measurement of the key performance parameter(s) which define the energy use of the FIM's affected system(s) and/or the success of the Project. Measurement frequency ranges from short-term to continuous, depending on the expected variations in the measured parameter and the length of the reporting period. Parameters not selected for field measurement are estimated. Estimates can be based on historical data, manufacturer's specifications, or engineering judgment. Documentation of the source or justification of the estimated parameter is required. The plausible savings error arising from estimation rather than measurement is evaluated. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option B – Retrofit Isolation:** All Parameter Measurement. Savings are determined by field measurement of the energy use of the FIM-affected system. Measurement frequency ranges from short-term to continuous, depending on the expected variations in the savings and the length of the reporting period. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option C - Whole Facility:** Savings are determined by measuring energy use at the whole Facility or sub-Facility level. Continuous measurements of the entire Facility's energy use are taken throughout the reporting period. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option D - Calibrated Simulation:** Savings are determined through simulation of the energy use of the whole Facility, or of a sub-Facility. Simulation routines are demonstrated to adequately model actual energy performance measured in the Facility. This Option usually requires considerable skill in calibrated simulation. If applicable, the predetermined schedule for data collection, evaluation, and reporting is defined in Exhibit A, Article 3-Performance Assurance Services Program.

**Option E – Stipulated:** This Option is the method of measurement and verification applicable to FIMS consisting either of Operational Savings or where the end use capacity or operational efficiency; demand, energy consumption or power level; or manufacturer's measurements, industry standard efficiencies or operating hours are known in advance, and used in a calculation or analysis method that will stipulate the outcome. Both CLIENT and SIEMENS agree to the stipulated inputs and outcome(s) of the analysis methodology. Based on the established analytical methodology the Savings stipulated will be achieved upon completion of the FIM and no further

## Exhibit C – Performance Assurance

measurements or calculations will be performed during the Performance Guarantee Period. If applicable, the methodology and calculations to establish Savings value will be defined in Section 4.6 of this Exhibit C.

- 2.2 Table 2.1 below summarizes the first Annual Period's Guaranteed Savings (See Article 1, Tables 1.1 and 1.2) utilizing the applicable Measurement and Verification Options as applied to the referenced FIMs valued pursuant to the agreed upon amounts identified in Article 6 hereof.

**Table 2.1 – Savings for First Annual Period by Option**

FIM	Energy/Utility Savings \$						Operational Savings \$	Total Savings \$
	Measurement and Verification Options						E Stipulated	
	A Retrofit Isolation: Key Parameter Measurement	B Retrofit Isolation: All Parameter Measurement	C Whole Facility	D Calibrated Simulation	E Stipulated	Total Energy/Utility Savings		
Package Unit Replacement	\$13,379					\$13,379		\$13,379
Boiler Replacement	\$962					\$962		\$962
Chiller Replacement	\$9,856					\$9,856		\$9,856
Refurbish AHU's	\$16,555					\$16,555		\$16,555
Lighting Retrofit	\$93,656					\$93,656	\$ 11,816	\$105,472
Plug Load	\$716					\$716		\$716
Controls	\$906					\$906		\$906
<b>TOTALS</b>	<b>\$136,030</b>					<b>\$136,030</b>	<b>\$ 11,816</b>	<b>\$147,846</b>

- 2.3 Table 2.2 identifies the source of Operational Savings defined and quantified by the Parties. The Parties affirm that such amounts are Stipulated Savings for purposes of calculating Annual Realized Savings and acknowledge that the Guaranteed Savings identified herein have been based on CLIENT'S affirmation. **OPERATIONAL SAVINGS SHALL NOT BE MEASURED OR MONITORED DURING THE PERFORMANCE GUARANTEE PERIOD.**

**Table 2.2 - Source of Operational Savings**

Account/Vendor	Description	Annual Cost \$	# of Annual Periods Savings Are Applied	Annual Period Savings Begin
City of Garden Grove	Interior and Exterior Lighting material replacements (Lamp, Ballasts and recycling maintenance cost reductions)	\$ 11,816	17	Construction Year

- 2.4 SIEMENS has explained to the CLIENT and the CLIENT has satisfied itself as to how Operational Savings are incorporated into the Annual Realized Savings.
- 2.5 The Escalation Factor applicable to the Operational Savings is 3%.

BY SIGNING BELOW, THE PARTIES CONFIRM THAT THEY HAVE REVIEWED THE INCLUDED MEASUREMENT AND VERIFICATION OPTIONS AND THEIR APPLICATION TO BE USED IN CALCULATING SAVINGS UNDER THE AGREEMENT.

**CLIENT:**            **City of Garden Grove**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**SIEMENS:**            **Siemens Industry, Inc.**

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Signature: \_\_\_\_\_  
Printed Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

**Article 3: Performance Guarantee Period Responsibilities of the CLIENT**

In addition to the CLIENT'S responsibilities under Article 6 of the Agreement, this Article details the responsibilities of the CLIENT in connection with the management and administration of the Performance Guarantee.

- 3.1 The CLIENT will provide a representative at each Facility to coordinate work and provide required data described below.
- 3.2 The CLIENT will provide SIEMENS with accurate Facility operating information as defined below and in the Contracted Baseline article of this Exhibit C during each Annual Period, within thirty (30) days of any Material Change that may increase or decrease energy usage.
- 3.3 If applicable, the CLIENT will provide SIEMENS with copies of utility bills within thirty (30) days of receipt by the CLIENT or provide access to utility vendor information to allow SIEMENS to include a utility bill analysis in the Annual Performance Assurance Report. The utility bill analysis does not take the place of the Measurement and Verification Plan identified in Article 4 of this Exhibit C and is not used to measure the Project's performance.
- 3.4 If required for the Work, CLIENT will provide telephone/data remote access, through SIEMENS Insight® software package or otherwise, as SIEMENS reasonably requests. All charges related to telephone/data line installation, activation and communication services are the responsibility of the CLIENT.
- 3.5 If required for the Work, CLIENT will provide and coordinate utility meter upgrade for interface with SIEMENS metering and data collection. All charges related for these upgrades are the responsibility of the CLIENT.

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Article 4: Measurement and Verification Plan

The following information is applicable to this Agreement:

Article 4.1 General Overview

Article 4.2 Option A - Retrofit Isolation: Key Parameter Measurement

Article 4.3 Option B - Retrofit Isolation: All Parameter Measurement

Article 4.4 Option C - Whole Facility

Article 4.5 Option D - Calibrated Simulation

Article 4.6 Option E – Stipulated-Energy/Utility Savings

**4.1 General Overview –**

The purpose of the Measurement and Verification (M&V) Plan is to identify the methods, measurements, procedures and tools that will be used to verify the Savings for each FIM which has energy/utility Savings. Savings are determined by comparing prior usage, consumption or efficiencies (defined as the "Baseline") against the post-FIM implementation usage, consumption or efficiencies. The Baseline usage, consumption or efficiencies are described in this Exhibit C, Article 5. The post-FIM implementation usage, consumption or efficiencies is defined as the Contracted Baseline and are described in this Exhibit C, Article 7.

**4.2 Option A - Retrofit Isolation: Key Parameter Measurement**

**4.2.1 Lighting Upgrade**

**Location(s):**

Location	Address
Police Station	11301 Acacia Parkway, Garden Grove CA 92840
Juvenile Justice	11301 Acacia Parkway, Garden Grove CA 92840
Property & Evidence	11301 Acacia Parkway, Garden Grove CA 92840
Police Annex	11400 Stanford Ave, Garden Grove CA 92840
City Hall	11222 Acacia Parkway, Garden Grove CA 92840
Gem Theatre	12852 Main st. Garden Grove CA 92840
Amphitheatre	12762 Main St, Garden Grove CA 92840
Courtyard Center + Activity Center	12732 Main st. Garden Grove, CA 92840
Community Meeting Center, H. Louis Lake Senior Center	11300 Stanford Ave, Garden Grove CA 92840
Buena Clinton	12661 Sunswept Ave, Garden Grove CA 92843

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Municipal Service Center	13802 Newhope St., Garden Grove CA 92843
Fire Station #1	11301 Acacia Parkway, Garden Grove CA 92840
Fire Station #2	11805 Gilbert st., Garden Grove CA 92841
Fire Station #3	12132 Trask ave., Garden Grove CA 92843
Fire Station #4	12191 Valley View st., Garden Grove CA 92845
Fire Station #5	12751 Western ave., Garden Grove CA 92841
Fire Station #7	14162 Forsyth Ln, Garden Grove CA 92844
Sports and Rec + Pump house	9301 Westminister blvd, Garden Grove CA 92844
Atlantis	9301 Westminister ave. Garden Grove CA 92844
Garden Grove Park (not including Musco/Stadium lighting)	9301 Westminister blvd, Garden Grove CA 92844
Chapman Sports Complex (not including Musco/Stadium lighting)	11990 Knott St, Garden Grove CA 92841
Woodbury Park	13800 Rosita pl., Garden Grove CA 92843
West Grove Park	5372 Cerulean Ave, Garden Grove CA 92845
Village Green Park	12852 Main St, Garden Grove CA 92840
Eastgate Park	12001 St. Mark St., Garden Grove CA 92845
Gutosky Park	9201 Ferris Ln, Garden Grove CA 92841
Magnolia Park	11402 Magnolia ave., Garden Grove CA 92841
Faylane Park	11700 Seacrest Dr., Garden Grove CA 92840
Civic Center Parking lot	11300 Stanford Ave, Garden Grove CA 92840
Library Parking lot	11300 Stanford Ave, Garden Grove CA 92840

**Overview:**

SIEMENS will retrofit the existing fixtures, lamps, and/or ballasts with more energy-efficient fixtures, lamps, and/or ballasts. SIEMENS will also install occupancy sensor controls in selected locations as per Exhibit A Appendix 1 Verification of electric energy Savings (kWh) achieved by the lighting retrofit shall be based upon a one-time measurement of the lighting power capacity under existing conditions, a one-time measurement of the lighting power capacity upon completion of the lighting retrofit project and agreed-upon annual operating hours. Spot wattage measurements of a random sample of baseline and post-

installation fixture types or fixture circuits will be used to establish demand. Sample size for wattage measurements will be determined based on FEMP guidelines for sample size determination, with overall population sample size not to exceed 10% of the retrofit population.

**Pre-Retrofit Measurement\Calculations:**

$kWh_{pre} = (kW_{pre} * Quantity_{pre} * AOHrs_{pre})_{\text{fixture type "n"}}$ , summed across all fixture types = pre-retrofit annual kWh

Where:

$kW_{pre}$  = Instantaneous kW based on random sample of existing lighting-fixture types

$Quantity_{pre}$  = Count of each fixture-type based on as-built survey

$AOHrs_{pre}$  = Pre-Retrofit Annual Operating Hours, stipulated Exhibit A Appendix 1

**Post-Retrofit Measurement\Calculations:**

$kWh_{post} = (kW_{post} * Quantity_{post} * AOHrs_{post})_{\text{fixture type "n"}}$ , summed across all fixture types = post-retrofit annual kWh

Where:

$kW_{post}$  = Instantaneous kW based on random sample of the installed/retrofitted lighting-fixture types

$Quantity_{post}$  = Count of each fixture-type based on as-built survey

$AOHrs_{post}$  = Post-Retrofit Annual Operating Hours, stipulated Exhibit A Appendix 1

**Savings Calculations:**

**Electric Savings (kWh/yr):**

$kWh_S = kWh_{pre} - kWh_{post}$

**Demand Savings (kW/yr):**

$kW_S = (kW_{pre} - kW_{post}) * \text{Months}$

Where:

$kW_S$  = annual post-retrofit kilowatt savings

Months = months per year of electric demand savings = 12

**Cost Savings (\$/yr):**

$\$S = (kWh_S * \$/kWh_{,x}) + (kW_S * \$/kW_{,x})$

Where:

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$/kW$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$S$  = Total annual cost savings

#### 4.2.2 Package Unit Replacement

**Location(s):** Public Works, Gem Theatre, Fire Station #5, Gem Theatre, Teen Center, Magnolia Park Neighborhood Center, Sports & Recreation Center

**Overview:**

Siemens will replace the package units as described in Exhibit A. Savings result from the increase in cooling and heating efficiency and energy savings control strategies implemented (scheduling and/or night setback/set up). Savings will be verified by continuously trending the electric power (kW) of the equipment and thermal efficiency per manufacturer's specification of install units.

In addition the control strategies implemented will be monitored to ensure the units are operating as described in Article 7 of this Exhibit C.

**Scheduling**

Continuous trending of equipment fan status (on/off) and status (occ/unocc) to verify the schedule as described in Article 7 of this Exhibit C.

**Night Setback/Set up**

Continuous trending of heating and cooling set point in conjunction with equipment status to verify the set point is setting back during heating mode and setting forward during cooling mode as described in Article 7 of this Exhibit C.

Post-retrofit, if contracted baseline schedules for this equipment, as established in Article 7 of this Exhibit C, are modified by the CLIENT and result in a loss of energy savings, the Guaranteed Savings for this FIM will be deemed achieved.

**Pre-Retrofit Measurement\Calculations:**

$kWh_{pre}$  = pre-retrofit electric consumption (kWh/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

$kW_{pre}$  = pre-retrofit electric demand (kW/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

$Therms_{pre}$  = pre-retrofit natural gas consumption (Therms/yr) based on modeling of existing equipment, shown in Table 4.2.2.1

**Table 4.2.2.1 - Pre-retrofit Consumption by Location and Equipment**

Location	Unit	$kWh_{pre}$	$kW_{pre}$	$Therms_{pre}$
Public Works	AC-6 & AC-7	6,440	4.43	281
Public Works	AC-8	11,144	7.50	471
Public Works	AC-9	7,924	5.29	326
Fire Station #5	AC-1 & AC-2	12,797	8.50	490
Gem Theater	AC-3 & AC-5	13,102	9.68	718
Teen Center	AC-1	9,987	8.53	496
Magnolia Park Neighborhood Center	AC-1	7,891	5.30	341
Magnolia Park Neighborhood Center	AC-2	7,809	4.71	279
Sports & Recreation Center	AC-1 & AC-2	61,385	39.89	2,536
Sports & Recreation	AC-3	22,913	15.40	1,067



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Center				
Sports & Recreation Center	AC-4	21,030	13.84	903

**Post-Retrofit Measurement Calculations:**

$$kWh_{post} = \Sigma(\text{Avg Cooling kW} * \text{AOH})_{BIN}$$

$$kW_{post} = \Sigma(\text{Avg Cooling kW})_{BIN}$$

$$\text{Therms}_{post \text{ Heating}} = \Sigma(\text{Total Heating Load} / 100,000 \text{ }^{BTU}_{Therm} / \eta)_{BIN}$$

Where:

Avg Cooling Kw = average electric demand (kW) per OAT Bin as shown in Table 4.2.2.2a and b

AOH= annual operating hours per OAT Bin as shown in Table 4.2.2.2a and b

Total Heating Load = total heating load (BTU) as shown in Table 4.2.2.2a and b

$\eta$  = Thermal Efficiency verified by manufacturer's specification of installed equipment (%)

**Table 4.2.2.2a - Total Heating Load (BTU)**

Average Outdoor Air Temp (°F)	Annual Operating Hours (AOH)	Total Heating Load (BTU)				
		Public Works AC-6 & AC-7	Public Works AC-8	Public Works AC-9	Fire Station 5	Gem Theatre
97.5	3	34,494	57,889	40,642	68,160	85,804
92.5	14	27,873	46,854	32,917	56,140	71,380
87.5	67	23,998	40,397	28,398	48,699	62,451
82.5	277	20,034	33,747	23,730	41,621	53,958
77.5	522	14,760	24,865	17,485	32,187	42,493
72.5	881	9,484	15,979	11,237	22,075	29,589
67.5	1652	4,415	7,439	5,231	12,410	17,238
62.5	2188	-4,648	-7,723	-5,399	2,605	4,646
57.5	1582	-9,073	-15,074	-10,538	-12,720	-13,882
52.5	964	-13,498	-22,426	-15,677	-21,038	-23,675
47.5	432	-17,922	-29,777	-20,816	-29,355	-33,468
42.5	140	-22,347	-37,129	-25,955	-37,672	-43,260
37.5	38	-26,772	-44,480	-31,094	-45,989	-53,053

**Table 4.2.2.2b – Total Heating Load (BTU)**

Exhibit C – Performance Assurance

Average Outdoor Air Temp (°F)	Annual Operating Hours (AOH)	Total Heating Load (BTU)					
		Teen Center	Magnolia Park Neighborhood Center AC-1	Magnolia Park Neighborhood Center AC-2	Sports & Recreation Center AC-1 & AC-2	Sports & Recreation Center AC-3	Sports & Recreation Center AC-4
97.5	3	57,390	40,642	36,171	327,847	129,701	111,109
92.5	14	46,489	32,917	29,550	267,749	105,662	90,675
87.5	67	40,167	28,398	25,676	230,545	90,780	78,026
82.5	277	33,637	23,730	21,535	195,155	76,624	65,993
77.5	522	24,912	17,485	15,874	143,489	56,328	48,519
72.5	881	16,179	11,237	10,210	91,675	35,978	30,997
67.5	1652	7,792	5,231	4,753	41,800	16,404	14,133
62.5	2188	-7,286	-5,399	-4,547	-40,225	-16,182	-13,699
57.5	1582	-14,505	-10,538	-8,874	-81,419	-32,753	-27,729
52.5	964	-21,724	-15,677	-13,202	-122,613	-49,325	-41,758
47.5	432	-28,943	-20,816	-17,530	-163,807	-65,897	-55,788
42.5	140	-36,162	-25,955	-21,857	-205,001	-82,468	-69,817
37.5	38	-43,381	-31,094	-26,185	-246,195	-99,040	-83,847

**Savings Calculations:**

**Electric Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

**Demand Savings (kW/yr):**

$$\text{kW}_S = (\text{kW}_{\text{pre}} - \text{kW}_{\text{post}}) * \text{Months}$$

**Natural Gas Savings (Therms/yr):**

$$\text{Therms}_S = \text{Therms}_{\text{pre}} - \text{Therms}_{\text{post}}$$

**Cost Savings (\$/yr):**

$$\$_S = (\text{kWh}_S * \$/\text{kWh}_{,x}) + (\text{kW}_S * \$/\text{kW}_{,x}) + (\text{Therms}_S * \$/\text{Therm}_{,x})$$

Where:

$\text{kW}_S$  = annual post-retrofit kilowatt savings

Months = months per year of electric demand savings = 12

$\$/\text{kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$/\text{kW}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

$\$/\text{Therm}$  = contracted unit price for natural gas at each location as per Article 6 of this Exhibit C

$\$_S$  = Total annual cost savings

#### 4.2.3 Chiller Replacement

**Location(s):** City Hall

**Description**

Energy and cost savings will be achieved by replacing the existing cooling systems with a higher efficiency cooling system. Savings will be verified by comparing the energy intensity (kW/ton<sub>pre</sub>) of the pre-retrofit cooling equipment against the energy intensity (kW/Ton<sub>post</sub>) of the post-retrofit cooling Equipment based on continuous trending chiller.

**Pre-Retrofit Measurements\Calculations:**

$$\begin{aligned} \text{kWh}_{\text{pre}} &= \text{CHkWh}_{\text{pre}} + \text{CTkWh}_{\text{pre}} + \text{CHWPkWh}_{\text{pre}} = 237,738 \text{ kWh/yr} \\ \text{CHkWh}_{\text{pre}} &= \text{Occ kW/Ton}_{\text{pre}} * \text{AOHOcc} + \text{Unocc kW/Ton}_{\text{pre}} * \text{AOHUnocc} \\ \text{CTkWh}_{\text{pre}} &= \text{OccCTkW}_{\text{pre}} * \text{AOHOcc} + \text{UnoccCTkW}_{\text{pre}} * \text{AOHUnocc} \\ \text{CHWPkWh}_{\text{pre}} &= (\text{CHWP1kW} + \text{CHWP2kW}) * \text{AOHOcc} + (\text{CHWP1kW} + \text{CHWP2kW}) * \text{AOHUnocc} \end{aligned}$$

Where:

$\text{kWh}_{\text{pre}}$  = Pre-Retrofit electric consumption of chiller plant (kWh/yr) based on the operating parameters shown in Table 4.2.3.1  
 $\text{CHkWh}_{\text{pre}}$  = Pre-Retrofit electric consumption of the existing chillers (kWh/yr) = 140,448 kWh/yr  
 $\text{Occ kW/Ton}_{\text{pre}}$  = Pre-retrofit chiller efficiency occupied per Table 4.2.3.1  
 $\text{AOHOcc}$  = Annual Occupied Operating Hours per Table 4.2.3.1  
 $\text{Unocc kW/Ton}_{\text{pre}}$  = Pre-retrofit unoccupied chiller efficiency per Table 4.2.3.1  
 $\text{AOHUnocc}$  = Annual Unoccupied Operating Hours per Table 4.2.3.1  
 $\text{CTkWh}_{\text{pre}}$  = Pre-Retrofit electric consumption of the cooling tower fan (kWh/yr) = 3,477 kWh/yr  
 $\text{OccCTkW}_{\text{pre}}$  = Cooling Tower Fan occupied electric demand per Table 4.2.3.1  
 $\text{OccCTkW}_{\text{pre}} = \text{CTFull LoadkW} * \text{Occ}\% \text{Cap}^3 * \text{CHWTMin} / \text{CHWST}_{\text{pre}}$   
 $\text{CTFull LoadkW}$  = Electric demand of the cooling tower fan at full load = 14.92 kW  
 $\text{Occ}\% \text{Cap}_{\text{pre}}$  = Occupied percent capacity on chiller plant per Table 4.2.3.1  
 $\text{CHWTMin} = 70^\circ \text{F}$   
 $\text{OccCHWST}$  = Occupied chilled water system temp per Table 4.2.3.1  
 $\text{UnoccCTkW}_{\text{pre}}$  = Cooling Tower Fan unoccupied electric demand per Table 4.2.3.1  
 $\text{UnoccCTkW}_{\text{pre}} = \text{CTFull LoadkW} * \text{Unocc}\% \text{Cap}^3 * \text{CHWTMin} / \text{CHWST}_{\text{pre}}$   
 $\text{Unocc}\% \text{Cap}$  = Occupied percent capacity on chiller plant = 20%  
 $\text{CHWPkWh}_{\text{pre}}$  = Pre-Retrofit electric consumption of the chilled water pumps (kWh/yr) = 93,813 kWh/yr  
 $\text{CHWP1kW}$  = Chilled water pump 1 electric demand = 5.595 kW  
 $\text{CHWP2kW}$  = Chilled water pump 2 electric demand = 7.460 kW

**Table 4.2.3.1 - Pre-retrofit Chilled Water Plant Operating Parameters**

OAT Bin	Annual Occupied Operating Hours (AOHOcc)	Pre-Retrofit Chilled Water System Temp	Pre-retrofit Occ % Capacity	Pre-Retrofit Chiller Plant kW/Ton	Pre-Retrofit CT kW Occ	Annual Unocc Operating Hours (AOHUnocc)	Post-Retrofit Chiller Plant kW/Ton	Pre-Retrofit CT kW Unocc
97.5	2	85	80%	0.839	6.29	1	0.945	0.098
92.5	9	85	80%	0.839	6.29	5	0.945	0.098
87.5	42	85	70%	0.864	4.21	25	0.945	0.098
82.5	171	85	70%	0.864	4.21	106	0.945	0.098
77.5	303	85	60%	0.816	2.65	219	0.945	0.098
72.5	457	85	50%	0.764	1.54	424	0.945	0.098
67.5	676	85	30%	0.893	0.33	976	0.945	0.098
62.5	851	80	30%	0.804	0.35	1,337	0.847	0.104
57.5	555	80	20%	0.847	0.10	1,027	0.847	0.104

**Post-Retrofit Measurements/Calculations:**

$$kWh_{Pre} = CHkWh_{Post} + CTkWh_{Post} + CHWPkWh_{Pre}$$

$$CHkWh_{Post} = kW/Ton_{Post} * AOHOcc$$

$$CTkWh_{Pre} = OccCTkW_{Post} * AOHOcc$$

Where:

$kW/Ton_{post}$  = Post-retrofit chiller plant efficiency based on continuous trending of the chiller plant

$OccCTkW_{post}$  = Post-retrofit cooling tower fan occupied electric demand per Table 4.2.3.2

$$CTkW_{Post} = CTFull LoadkW * Occ\%Cap_{Post}^3 * CHWTMin / CHWST_{Post}$$

**Table 4.2.3.2 - Post-retrofit Chilled Water Plant Operating Parameters**

OAT Bin	Annual Occupied Operating Hours (AOHOcc)	Post-Retrofit Chilled Water System Temp	Post-Retrofit Occ % Capacity	Post-Retrofit CT kW Occ
97.5	2	80	80%	6.68
92.5	9	78	80%	6.86
87.5	42	77	70%	4.65
82.5	171	76	70%	4.71
77.5	303	75	60%	3.01
72.5	457	73	60%	3.09
67.5	676	70	60%	3.22
62.5	851	69	20%	0.12
57.5	555	68	20%	0.12

**Savings Calculations:**

**Energy (kWh) Savings:**

$$\text{kWh}_s = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

**Formulas for Cost Savings:**

$$\$_s = \text{kWh}_s \times \$/\text{kWh}_x$$

Where:

$\$_s$  = annual cost savings

$\text{kWh}_s$  = annual Electric savings (kWh/yr)

$\$/\text{kWh}_x$  = electricity unit cost per kWh as defined for location 'x' in Article 6 of this Exhibit C

4.2.4 Boiler Replacement

**Location(s):** Police Department

**Overview:**

Energy savings expected from an efficiency increase by upgrading existing boilers to condensing hot water boilers. These savings will be verified by a post-retrofit combustion efficiency based on manufacturer's specifications of installed equipment.

**Pre-retrofit measurements\Calculations:**

$$\text{Fuel}_{\text{pre}} = (\text{Capacity} * \text{AOH} * \%PF) / (\eta_{\text{Pre,CE}} * \eta_D) / \text{HVNG}$$

Where:

$\text{Fuel}_{\text{pre}}$  = Pre-retrofit natural gas usage (Therms/yr) = 8,356 Therms/yr

Capacity = Boiler Capacity = 1,260 Mbh

AOH = Annual operating hours = 630 hours/yr

$\%PF$  = Part load factor = 75%

$\eta_{\text{Pre,CE}}$  = Pre-retrofit combustion efficiency = 75 %

$\eta_D$  = Pre-retrofit distribution efficiency = 95 %

HVNG = High heating value of natural gas = 100  $\text{MBtu}/\text{Therm}$

**Post-retrofit measurements\Calculations:**

$$\text{Fuel}_{\text{post}} = (\text{Capacity} * \text{AOH} * \%PF) / (\eta_{\text{Post,CE}} * \eta_D) / \text{HVNG}$$

Where:

$\text{Fuel}_{\text{post}}$  = Post-retrofit natural gas usage (Therms/yr)

$\eta_{\text{Post,CE}}$  = average combustion efficiency based on manufacturer's specifications

**Savings Calculations:**

**Energy Savings (Therms/yr):**

$$\text{Fuel}_s = \text{Fuel}_{\text{pre}} - \text{Fuel}_{\text{post}}$$

**Cost Savings (\$/yr):**

$$\$_s = \text{Fuel}_s * \$/\text{Therm}_x$$

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Where:

Fuel<sub>S</sub> = annual fuel (Therms/yr) savings

\$/Therm<sub>x</sub> = unit price for natural gas at location 'x' as per Article 6 of this Exhibit C

### 4.2.5 Refurbish AHUs – City Hall AHU-1

**Location(s):** City Hall

**Overview:**

Siemens will refurbish AHU-1 at City Hall as described in Exhibit A. Energy savings results from varying the supply and return fans speed from constant volume to variable volume. Savings will be verified by continuously trending the supply and return fan electric demand (kW) in conjunction with fan speed and outdoor air damper position.

**Pre-Retrofit Measurement/Calculations:**

$kWh_{pre} = \text{Supply } kWh_{pre} + \text{Return } kWh_{pre}$

$\text{Supply } kWh_{post} = \sum [\text{Supply } kW_{pre} * AOH]_{OAT\ BIN}$

$\text{Return } kWh_{post} = \sum [\text{Return } kW_{pre} * AOH]_{OAT\ BIN}$

Where:

$kWh_{pre}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Supply } kWh_{pre}$  = Pre-retrofit supply fan annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Supply } kW_{pre}$  = Pre-retrofit supply fan electric demand (kW) = 31.32 kW

AOH = Annual operating hours per OAT Bin as shown in Table 4.2.5.1

$\text{Return } kWh_{post}$  = Pre-retrofit return fan annual electric consumption (kWh/yr) as shown in Table 4.2.5.1

$\text{Return } kW_{pre}$  = Pre-retrofit return fan electric demand (kW) = 7.10 kW

**Table 4.2.5.1 - Pre-retrofit Electric Consumption (City Hall AHU-1)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh	Pre-Retrofit Return Fan kWh	Pre-Retrofit Total kWh
97.5	2	60	14	74
92.5	9	282	64	346
87.5	42	1,319	299	1,618
82.5	171	5,371	1217	6,588
77.5	303	9,486	2150	11,636
72.5	457	14,320	3246	17,566
67.5	676	21,183	4802	25,985
62.5	851	26,652	6041	32,693
57.5	555	17,383	3940	21,323
52.5	293	9,174	2079	11,253
47.5	116	3,629	823	4,452
42.5	35	1,087	246	1,334

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37.5	9	287	65	352
<b>Total</b>	<b>3,520</b>	<b>110,233</b>	<b>24,986</b>	<b>135,219</b>

### **Post-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{post}} = \text{Supply kWh}_{\text{post}} + \text{Return kWh}_{\text{post}}$$

$$\text{Supply kWh}_{\text{post}} = \Sigma[\text{Supply kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{post}} = \Sigma[\text{Return kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{post}}$  = Total post-retrofit annual electric consumption (kWh/yr)

$\text{Supply kWh}_{\text{post}}$  = Post-retrofit supply fan annual electric consumption (kWh/yr)

$\text{Supply kW}_{\text{post}}$  = Post-retrofit average per OAT Bin supply fan electric demand (kW) trended continuously through EMS

$\text{Return kWh}_{\text{post}}$  = Post-retrofit return fan annual electric consumption (kWh/yr)

$\text{Return kW}_{\text{post}}$  = Post-retrofit average per OAT Bin return fan electric demand (kW) trended continuously through EMS

### **Savings Calculations:**

#### **Energy Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

Where:

$\text{kWh}_S$  = Total annual electric savings (kWh/yr)

#### **Cost Savings(\$/yr):**

$$\$_S = \text{kWh}_S * \$/\text{kWh}$$

Where:

$\$_S$  = Total annual cost savings

$\$/\text{kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

#### 4.2.6 Refurbish AHUs – City Hall MZ-1

##### **Location(s):** City Hall

##### **Overview:**

Siemens will refurbish MZ-1 at City Hall as described in Exhibit A. Energy savings results from scheduling MZ-1 from 24/7 operation to 6am to 7pm (M-Thurs and every other Friday) and Holiday scheduling. Savings will be verified by continuously trending the supply fan status. The annual operating hour bin model will be re-run with the actual schedules observed during each Annual Period.

Post-retrofit, if contracted baseline schedules for this equipment, as established in Article 7 of this Exhibit C, are modified by the CLIENT and result in a loss of energy savings, the Guaranteed Savings for this FIM will be deemed achieved.

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**Pre-Retrofit Measurement Calculations:**

$$kWh_{pre} = \sum [Supply\ kW * AOH_{Pre}]_{OAT\ BIN}$$

Where:

$kWh_{pre}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.6.1

Supply kW = supply fan electric demand (kW) = 5.87 kW

$AOH_{Pre}$  = Pre-retrofit annual operating hours per OAT Bin as shown in Table 4.2.6.1

**Table 4.2.6.1 - Pre-retrofit Electric Consumption (City Hall AHU-2)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh
97.5	3	18
92.5	14	82
87.5	67	393
82.5	277	1,627
77.5	522	3,065
72.5	881	5,174
67.5	1652	9,701
62.5	2188	12,849
57.5	1582	9,290
52.5	964	5,661
47.5	432	2,537
42.5	140	822
37.5	38	223
<b>Total</b>	<b>8,760</b>	<b>51,442</b>

**Post-Retrofit Measurement Calculations:**

$$kWh_{post} = \sum [Supply\ kW * AOH_{Post}]_{OAT\ BIN}$$

Where:

$kWh_{post}$  = Total post-retrofit annual electric consumption (kWh/yr)

$AOH_{Post}$  = Post-retrofit annual operating hours per OAT Bin modeled by continuously trending supply fan status to determine actual schedule

**Savings Calculations:**

**Energy Savings (kWh/yr):**

$$kWh_s = kWh_{pre} - kWh_{post}$$

Where:

$kWh_s$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$$\$_s = kWh_s * \$/kWh$$



Where:

$\$S$  = Total annual cost savings

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

#### 4.2.7 Refurbish AHUs – Police Department AH-1

**Location(s):** Police Department

**Overview:**

Siemens will refurbish AH-1 at the Police Department as described in Exhibit A. Energy savings results from varying the supply and return fans speed from constant volume to variable volume. Savings will be verified by continuously trending the supply and return fan electric demand (kW) in conjunction with fan speed and outdoor air damper position.

**Pre-Retrofit Measurement\Calculations:**

$kWh_{pre} = \text{Supply } kWh_{pre} + \text{Return } kWh_{pre}$

$\text{Supply } kWh_{pre} = \Sigma[\text{Supply } kW_{pre} * AOH]_{OAT \text{ BIN}}$

$\text{Return } kWh_{pre} = \Sigma[\text{Return } kW_{pre} * AOH]_{OAT \text{ BIN}}$

Where:

$kWh_{pre}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Supply } kWh_{pre}$  = Pre-retrofit supply fan annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Supply } kW_{pre}$  = Pre-retrofit supply fan electric demand (kW) = 19.57 kW

$AOH$  = Annual operating hours per OAT Bin as shown in Table 4.2.7.1

$\text{Return } kWh_{pre}$  = Pre-retrofit return fan annual electric consumption (kWh/yr) as shown in Table 4.2.7.1

$\text{Return } kW_{pre}$  = Pre-retrofit return fan electric demand (kW) = 1.87 kW

**Table 4.2.7.1 - Pre-retrofit Electric Consumption (PD AHU-1)**

OAT BIN	AOH	Pre-Retrofit Supply Fan kWh	Pre-Retrofit Return Fan kWh	Pre-Retrofit Total kWh
97.5	3	59	6	64
92.5	14	274	26	300
87.5	67	1,311	125	1,437
82.5	277	5,422	517	5,939
77.5	522	10,218	974	11,192
72.5	881	17,245	1,644	18,889
67.5	1652	32,337	3,082	35,419
62.5	2188	42,829	4,082	46,912
57.5	1582	30,967	2,952	33,919
52.5	964	18,870	1,799	20,669
47.5	432	8,456	806	9,262

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42.5	140	2,740	261	3,002
37.5	38	744	71	815
<b>Total</b>	<b>8,760</b>	<b>171,474</b>	<b>16,344</b>	<b>187,818</b>

### **Post-Retrofit Measurement Calculations:**

$$\text{kWh}_{\text{post}} = \text{Supply kWh}_{\text{post}} + \text{Return kWh}_{\text{post}}$$

$$\text{Supply kWh}_{\text{post}} = \sum [\text{Supply kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

$$\text{Return kWh}_{\text{post}} = \sum [\text{Return kW}_{\text{post}} * \text{AOH}]_{\text{OAT BIN}}$$

Where:

$\text{kWh}_{\text{post}}$  = Total post-retrofit annual electric consumption (kWh/yr)

$\text{Supply kWh}_{\text{post}}$  = Post-retrofit supply fan annual electric consumption (kWh/yr)

$\text{Supply kW}_{\text{post}}$  = Post-retrofit average per OAT Bin supply fan electric demand (kW) trended continuously through EMS

$\text{Return kWh}_{\text{post}}$  = Post-retrofit return fan annual electric consumption (kWh/yr)

$\text{Return kW}_{\text{post}}$  = Post-retrofit average per OAT Bin return fan electric demand (kW) trended continuously through EMS

### **Savings Calculations:**

#### **Energy Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

Where:

$\text{kWh}_S$  = Total annual electric savings (kWh/yr)

#### **Cost Savings(\$/yr):**

$$\$_S = \text{kWh}_S * \$/\text{kWh}$$

Where:

$\$_S$  = Total annual cost savings

$\$/\text{kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

## 4.2.8 Siemens Design Controls System – Holiday Scheduling

### **Location(s):**

Building	# of Units	Unit Numbers
Juvenile Justice	4	AC-1, AC-2, AC-3, AC-4
Property & Evidence Building	4	AC-1, F1, F-2, F-3
Fire Station #5	2	AC-1, AC-2
Fire Station #7	1	AC-1
Public works	14	AC 1-14

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Buena Clinton Youth & Family Center	8	SHP 1-2, 4, 5A-5B HP 7-8,10
Courtyard Center/ Activity Center	5	Courtyard AC-1, AC-2, AC-3, AC-4, Activity AC-1
Police Annex	4	AC-1, AC-2, AC-3, AC-4
Magnolia Park Neighborhood Center	2	AC-1, AC-2
Festive Amphitheatre	2	AC-1, AC-2
Teen Center	1	AC-1
Community Service Center	1	AC-1

## Overview:

Siemens will install a new Siemens Desigo Automation System in the locations above to control the units listed in Table 4.2.8.1. Currently the units run 5 days a week all year, except for the Police Annex which operates 7 days a week. Siemens will implement a holiday schedule, shutting the units off for 14 days a year. Savings will be verified by continuously trending unit status and verifying the units shut down for 14 week days per year.

## Pre-Retrofit Measurement/Calculations:

$$kWh_{pre} = \sum [kW * AOH_{pre}]_{Unit}$$

Where:

$kWh_{pre}$  = Total pre-retrofit annual electric consumption (kWh/yr) as shown in Table 4.2.8.1 summed over all equipment for each building

$kW$  = Fan motor electric demand (kW) as shown in Table 4.2.8.1 for each piece of equipment

$AOH_{pre}$  = Annual pre-retrofit operating hours per piece of equipment as shown in Table 4.2.8.1

**Table 4.2.8.1 - Pre-retrofit Operating Parameters**

Location	Equipment	Pre-Retrofit Electric Demand ( $kW_{pre}$ )	Pre-Retrofit Annual Operating Hours ( $AOH_{pre}$ )	Pre-Retrofit Electric Consumption ( $kWh_{pre}$ )
Public works	AC 1	4.8	1,200	5,760
	AC-2	6	1,200	7,200
	AC-3	6	1,200	7,200
	AC-4	4.8	1,200	5,760
	AC-5	4.8	1,200	5,760
	AC-6	3.39	1,183	4,011
	AC-7	3.39	1,183	4,011
	AC-8	5.76	1,205	6,938
	AC-9	4.07	1,212	4,932
	AC-10	3.6	1,200	4,320
	AC-11	3.6	1,200	4,320
	AC-12	3.6	1,200	4,320

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	AC-13	3.6	1,200	4,320
	AC-14	3.6	1,200	4,320
Buena Clinton Youth & Family Center	SHP 1	0.1	1200	112
	SHP 2	0.1	1200	179
	SHP 4	0.1	1200	179
	SHP 5A	0.1	1200	179
	SHP 5B	3.0	1200	3,600
	SHP 7	1.5	1200	1,800
	SHP 8	4.0	1200	4,800
	SHP 10	4.0	1200	4,800
Courtyard Center	AC-1	2.4	1100	2,640
	AC-2	6.0	1100	6,600
	AC-3	6.0	1100	6,600
	AC-4	6.0	1100	6,600
Police Annex	AC 1	4.0	1100	4,400
	AC-2	4.0	1100	4,400
	AC-3	4.0	1100	4,400
	AC-4	4.0	1100	4,400
Magnolia Park Neighborhood Center	AC-1	4.0	1210	4,814
	AC-2	3.7	1316	4,897
Festive Amphitheatre	AC-1	5.6	900	5,040
	AC-2	5.6	900	5,040
Teen Center (Eastgate Park)	AC-1	5.76	880	5,068
Community Service Center (Westgrove Park)	AC-1	3.4	764	2,621

### **Post-Retrofit Measurement Calculations:**

$$kWh_{post} = \sum [kW * AOH_{Post}]_{Unit}$$

Where:

$kWh_{post}$  = Total post-retrofit annual electric consumption (kWh/yr) summed over all equipment for each building

$AOH_{Post}$  = Annual post-retrofit operating hours per piece of equipment determined by continuously trending equipment status

### **Savings Calculations:**

#### **Energy Savings (kWh/yr):**

$$kWh_s = kWh_{pre} - kWh_{post}$$

#### **Cost Savings(\$/yr):**

$$\$_s = kWh_s * \$/kWh$$

Where:

$kWh_s$  = Total annual electric savings (kWh/yr)

$\$_s$  = Total annual cost savings

$\$/kWh$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

## 4.2.9 Plug Load Management

**Location(s):** City Hall, Community Meeting Center/Senior Center, Public Works, Buena Client

**Overview:**

A plug load management system will be installed to reduce unnecessary electric usage when electronic equipment is not in use. Energy savings will be verified by post-retrofit logging of the runtime of a sample of equipment through the use of the energy monitoring controls during the first annual period.

**Pre-Retrofit Measurement\Calculations:**

$$kWh_{pre} = \sum(Qty_n * (W_n / 1,000^{W/kW}) * AOH_{pre,n})$$

Where:

$kWh_{pre}$  = Pre-retrofit electric consumption summed over all equipment per building as shown in Table 4.2.9.1

Qty = Quantity of equipment as shown in Table 4.2.9.1

W = Equipment power as shown in Table 4.2.9.1

$AOH_{pre}$  = Pre-retrofit annual operating hours as shown in Table 4.2.9.1 (hours/year)

**Table 4.2.9.1 – Plug Load Parameters**

Equipment (n)	Electric Demand (W)	Quantity (Qty)			
		City Hall	Comm Center/ Senior Center	Public Works / Municipal Service	Buena Client
Projector	8	2	0	0	1
Smartboard	6	0	0	0	0
Proj/Smbrd	12	0	0	0	0
Amp	8	0	0	0	0
Chrg Cart	35	0	0	0	0
S Print	11	0	0	0	0
M Print	20	25	4	15	2
L Print/Copy	40	4	1	2	1
TV/Mon	8	0	2	0	0
Snack Vend	40	1	1	1	0
Soda Vend	320	1	1	1	0
Lg Coffee	56	1	2	1	1
H/C Water Disp.	75	4	2	2	0
Pre-Retrofit Annual Operating Hours ( $AOH_{pre}$ )		2,250	4,250	2,500	2,250
Pre-retrofit Electric consumption ( $kWh_{pre}$ )		12,194	6,640	8,287	1,261

**Post-Retrofit Measurement\Calculations:**

$AOH_{post}$  = Post-retrofit annual operating hours, based on runtime logs collected from post-retrofit energy monitoring controls

$$kWh_{post} = \sum(Qty_n * (W_n / 1,000^{W/kW}) * AOH_{post,n})$$

Where:

$kWh_{post}$  = Post-retrofit electric consumption (kWh)

**Savings Calculations:**

**Energy Savings (kWh/yr):**

$$\text{kWh}_S = \text{kWh}_{\text{pre}} - \text{kWh}_{\text{post}}$$

Where:

$\text{kWh}_S$  = Total annual electric savings (kWh/yr)

**Cost Savings(\$/yr):**

$$\$_S = \text{kWh}_S * \$/\text{kWh}$$

Where:

$\$_S$  = Total annual cost savings

$\$/\text{kWh}$  = contracted unit price for electricity at each location as per Article 6 of this Exhibit C

- 4.3 **Option B - Retrofit Isolation: All Parameter Measurement - N/A**
- 4.4 **Option C - Whole Facility - N/A**
- 4.5 **Option D – Calibrated Simulation - N/A**
- 4.6 **Option E - Stipulated-Energy/Utility Savings - N/A**

## Article 5: Baseline Data

- 5.1 The year(s) selected as the Baseline Period starts on 11/3/2016 and ends on 11/2/2017. Table 5.1 outlines the utility consumption that occurred during this Baseline Period. This Baseline Period's Facility utility consumption will be used as the reference for comparing the Facility's utility consumption during the Performance Guarantee Period in order to determine the Annual Realized Savings.

**Table 5.1 – Baseline Utility Consumption**

<b>Building/ Park</b>	<b>Annual Electric [kWh]</b>	<b>Annual Electric [kW]</b>	<b>Annual Natural Gas [Therm]</b>
City Hall	821,519	235	1911
PD/ Fire Station #1/ Juvenile Justice/ Evidence	833,071	201	16276
CMC	399,641	171	6387
Public Works	343,666	161	8611
Gem Theater	72,488	61	1393
Police Annex	38,889	24	148
Festive Amphitheater	26,008	58	66
Magnolia Park-Building	35,140	20	420
Magnolia Park-Exterior	70,619	59	0
Courtyard	73,372	85	857
Sports & Rec/ Garden Grove Park/ Atlantis	403,595	468	Meter could not be located
Fire Station #2	46,801	13	925
Fire Station #3	48,035	13	916
Fire Station #4	40,336	12	594
Fire Station #5	54,007	24	687
Fire Station #7	33,484	13	380
Buena Clinton	51,213	61	No gas meter
Gutosky Park	11,928	6	N/A
Faylane Park	12,817	6	N/A
Eastgate Park M#1	81,519	37	5168
Eastgate Park M#2	8,206	11	N/A
Woodbury Park	98,101	34	11376
Westgrove Park	19,765	21	N/A
Regional Library	59,075	19	N/A
Champan Sports Complex	122,122	188	133308
<b>Total</b>	<b>3,805,417</b>	<b>2,001</b>	<b>189,423</b>

- 5.2 The operating practices during the Baseline Period determine the utility consumption shown in Table 5.1. This data indicates the operating characteristics that were in effect during the Baseline Period. The Guaranteed Savings provided under this Agreement are based on the efficiencies gained by implementing the Work and implementing the Contracted Baseline in Article 7 of this Exhibit C.

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**Table 5.2.1 – Baseline Package Units Parameters**

	Building	Eastgate Park Teen Center	Fire Station 5	GEM	Magnolia Park
	Unit	AC-1 5 Ton	AC-1 & AC-2 5 Ton	AC-3 & AC-5 6 Ton	AC-1 3 Ton
		EXISTING	EXISTING	EXISTING	EXISTING
1.	Economizer	None	None	None	None
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)				
	Low Limit (°F)				
	High Limit (°F)				
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.57	1.56	1.33	1.36
3.	Supply Air Flow (CFM)	2,000	2,000	2,400	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%	85.00%
5.	Gas Furnace - Thermal Efficiency (%)	78.60%	78.60%	77.20%	78.70%
	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
	UNOCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Sat/Sun 7am-6pm	24-7	Mon-Fri 4pm-9pm; Sat/Sun 10am-11pm	Mon-Fri 7am-7pm

**Table 5.2.2 – Baseline Package Units Parameters**

	Building	Magnolia Park	Public Works	Public Works	Public Works
	Unit	AC-2 3 Ton	AC-6 & AC-7 3 Ton	AC-8 5 Ton	AC-9 3 Ton
		EXISTING	EXISTING	EXISTING	EXISTING
1.	Economizer	None	None	None	None
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)				
	Low Limit (°F)				
	High Limit (°F)				
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.29	1.36	1.36	1.36
3.	Supply Air Flow (CFM)	1,200	1,200	2,000	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%	85.00%
5.	Gas Furnace - Thermal Efficiency (%)	81.00%	78.70%	78.00%	78.70%

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	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
	UNOCCUPIED				
	Cooling Setpoint (°F)	70	70	70	70
	Heating Setpoint (°F)	70	70	70	70
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Mon-Fri 7am-7pm	Mon-Fri 5am-6pm	Mon-Fri 5am-6pm	Mon-Fri 5am-6pm

**Table 5.2.3 – Baseline Package Units Parameters**

	Building	Sports and Rec	Sports and Rec	Sports and Rec
	Unit	AC-1 & AC-2 25 Ton	AC-3 10 Ton	AC-4 8 Ton
		<b>EXISTING</b>	<b>EXISTING</b>	<b>EXISTING</b>
1.	Economizer	None	None	None
	Minimum OSA %	20%	20%	20%
	Mixed Air Setpoint (°F)			
	Low Limit (°F)			
	High Limit (°F)			
	Enthalpy Limit (Btu/lb)			
2.	kW /Ton (of Compressor & Cond Fan)	1.39	1.37	1.43
3.	Supply Air Flow (CFM)	10,000	4,000	3,400
4.	Supply Fan Control	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%
	Motor Efficiency (%)	85.00%	85.00%	85.00%
5.	Gas Furnace - Thermal Efficiency (%)	82.00%	78.40%	78.40%
	Heat Pump - HCOP (rated at 47°F OSA)			
6.	OCCUPIED			
	Cooling Setpoint (°F)	70	70	70
	Heating Setpoint (°F)	70	70	70
	UNOCCUPIED			
	Cooling Setpoint (°F)	70	70	70
	Heating Setpoint (°F)	70	70	70
7.	OSA Damper Closed at Night?	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No
10.	Schedule	6am-11pm	6am-11pm	6am-11pm

**Table 5.2.4 – Baseline AHU schedule**

AHU	Schedule
City Hall AHU-1	Monday-Thursday & every other Friday: 5am – 9pm
City Hall AHU-2	24-7
Police Department AHU-1	24-7

The currently air handlers at the City Hall and Police Department do not have economizer, supply air reset and static pressure reset.

- 5.3 Applicable codes - Federal, State, County or Municipal codes or regulations are applicable to the use and operation of the Facility. SIEMENS will maintain the current level of Facility compliance relative to applicable codes unless specifically outlined to the contrary below. Unless specifically set forth in the Scope of Work and Services, Exhibit A, nothing herein should be construed as to require SIEMENS to provide additional work or services in the event that the current applicable code or regulation is modified.
- 5.3.1 Current code compliance (identify the applicable code citation):
  - a. California Title 24

## Article 6: Utility Rate Structures and Escalation Rates

- 6.1 Utility costs used for Savings calculations will be based on the utility rates and Escalation Rates, as provided in the table(s) below. Each Escalation Rate will be applied annually to the utility rate.

**Table 6.1.1 Electric Utility Rates**

Building	Weighted Rate Average/ Blended Rate	Electric		
		Rate Schedule	\$/kWh	\$/kW
City Hall	24/7 Operation - HVAC	TOU-GS-3B	\$0.071 /kWh	\$19.84 /kW
City Hall	Exterior Lights	TOU-GS-3B	\$0.065 /kWh	\$18.60 /kW
City Hall	Interior Lights [5:00AM - 11:00PM M-F]	TOU-GS-3B	\$0.078 /kWh	\$21.17 /kW
City Hall	HVAC (Non24/7) [4:30AM - 9:00PM M-F]	TOU-GS-3B	\$0.079 /kWh	\$21.27 /kW
CMC	24/7 Operation - HVAC	TOU-GS-2B	\$0.072 /kWh	\$17.42 /kW
CMC, Library Parking, Credit Union Park	Exterior Lights (7:00pm-9:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.22 /kW
CMC	Interior Lights [6:00AM - 7:00PM M-F], (6:00 am to midnight S, S)	TOU-GS-2B	\$0.076 /kWh	\$18.18 /kW
PD-FS#1-JJ	Exterior Lights (6:00pm-7:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.25 /kW
PD-FS#1-JJ	24/7 Operation HVAC; Interior Lighting	TOU-GS-2B	\$0.072 /kWh	\$17.42 /kW
Public Works	HVAC - Estimated Hours of Operation: M-S: 5:30 am to 8:30 pm	TOU-GS-2B	\$0.076 /kWh	\$18.19 /kW
Public Works	Exterior Lights (7:00pm-6:00 am)	TOU-GS-2B	\$0.066 /kWh	\$16.23 /kW
Public Works	Interior Lights [6:00AM - 7:00PM M-F]	TOU-GS-2B	\$0.083 /kWh	\$19.45 /kW
GEM	Interior Lights + HVAC - Sat/Sun 9:30am-10:30pm; Thursday/Friday 5:30pm-10:30pm; Mon/Tues/Wed 2:30pm-11pm	TOU-GS-2A	\$0.102 /kWh	\$15.89 /kW
GEM	Exterior Lights (4:00pm-6:00 am)	TOU-GS-2A	\$0.082 /kWh	\$15.89 /kW
Police Annex	Exterior Lights (6:00pm-7:00 am)	TOU-GS2B	\$0.066 /kWh	\$16.25 /kW
Police Annex	24/7 Operation HVAC; Interior Lighting	TOU-GS2B	\$0.072 /kWh	\$17.42 /kW
Festive Amp	Exterior Lights (7:00pm-9:00 am)	TOU-GS2B	\$0.066 /kWh	\$16.22 /kW
Festive Amp	Interior Lights [6:00AM - 7:00PM M-F], (6:00 am to midnight S, S)	TOU-GS2B	\$0.076 /kWh	\$18.18 /kW
Magnolia Park-	Blended Rate	TOU-	\$0.179 /kWh	

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Building		GS1B		
Magnolia Park- Exterior	Blended Rate	AL-2	\$0.079 /kWh	
Regional Library	Blended Rate	TOU- GS1B	\$0.128 /kWh	
Courtyard / Village Green Park	Blended Rate	AL-2	\$0.094 /kWh	
FS#2	Blended Rate	TOU- GS1B	\$0.126 /kWh	
FS#3	Blended Rate	TOU- GS1A	\$0.153 /kWh	
FS#4	Blended Rate	TOU- GS1A	\$0.155 /kWh	
FS#5	Blended Rate	TOU- GS2B	\$0.212 /kWh	
FS#7	Blended Rate	TOU- GS1A	\$0.157 /kWh	
Faylane Park	Blended Rate	AL-2	\$0.082 /kWh	
Eastgate Park M#1	Blended Rate	AL-2	\$0.090 /kWh	
Eastgate Park M#2	Blended Rate	AL-2	\$0.119 /kWh	
Woodbury Park M#1 and M#2	Blended Rate	AL-2	\$0.085 /kWh	
Westgrove Park	Blended Rate	AL-2	\$0.083 /kWh	
Sports and Rec/ Garden Grove Park/ Atlantis	Blended Rate	AL-2	\$0.096 /kWh	
Chapman Sports Complex	Blended Rate	AL-2	\$0.070 /kWh	
Buena Clinton	Blended Rate	TOU- GS2B	\$0.319 /kWh	
Gutosky Park	Blended Rate	AL-2	\$0.084 /kWh	

Table 6.1.2 Gas Utility Rates		Gas	
Building	Tier Level	Rate Schedule	\$/Therm
City Hall	Tier 2	GN-10	\$0.72 /Therm
PD/ Fire Station #1/ Juvenile Justice/ Evidence	Tier 2	GN-10	\$0.72 /Therm
CMC	Tier 2	GN-10	\$0.72 /Therm
Public Works	Tier 2	GN-10	\$0.72 /Therm
Gem Theater	Tier 2	GN-10	\$0.72 /Therm
Police Annex	N/A	GN-10	\$0.96 /Therm
Festive Amphitheater	Tier 2	GN-10	\$0.72 /Therm
Magnolia Park-Building	Tier 2	GN-10	\$1.31 /Therm
Courtyard	Tier 2	GN-10	\$0.72 /Therm
Sports & Rec/ Garden Grove Park/ Atlantis	N/A	GN-10	\$0.72 /Therm
Fire Station #2	Tier 2	GN-10	\$0.72 /Therm
Fire Station #3	Tier 2	GN-10	\$0.72 /Therm
Fire Station #4	Tier 2	GN-10	\$0.72 /Therm
Fire Station #5	Tier 2	GN-10	\$0.72 /Therm

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Fire Station #7	Tier 2	GN-10	\$1.32 /Therm
Buena Clinton	N/A	N/A	no gas meter
Eastgate Park M#1	Tier 2	GN-10	\$0.72 /Therm
Woodbury Park	Tier 2	GN-10	\$0.72 /Therm

The baseline rate schedules above used in the calculations were those prevailing at the time of execution of this contract escalated by 4%. Energy Escalation Rate: 4.0% per Annual Period thereafter

## Article 7: Contracted Baseline Data

- 7.1 The following tables detail the Facility operating parameters that are required to be implemented on the Guarantee Date or on such time as agreed upon by the Parties. This specific configuration of Facility operating parameters is the Contracted Baseline and failure of the CLIENT to maintain the Contracted Baseline may result in a Material Change which may require a modification of the Performance Guarantee pursuant to Article 4 of the Agreement.

**Table 7.1.1 Baseline Package Units Parameters**

	Building	Eastgate Park Teen Center	Fire Station 5	GEM	Magnolia Park
	Unit	AC-1 5 Ton	AC-1 & AC- 2 5 Ton	AC-3 & AC- 5 6 Ton	AC-1 3 Ton
		PROPOSED	PROPOSED	PROPOSED	PROPOSED
1.	Economizer	Temperature	Temperature	Temperature	Temperature
	Minimum OSA %	20%	20%	20%	20%
	Mixed Air Setpoint (°F)	57	57	57	57
	Low Limit (°F)	50	50	50	50
	High Limit (°F)	60	60	60	60
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	1.02	1.02	1.14	1.00
3.	Supply Air Flow (GFM)	2,000	2,000	2,400	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	90.00%	90.00%	90.00%	90.00%
5.	Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%	85.00%
	Heat Pump - HCOP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69.5	69.5	69.5	69.5
	UNOCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69	69	69	69
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Sat/Sun 7am-6pm; with no Holidays	24-7	Mon-Fri 4pm-9pm; Sat/Sun 10am-11pm; with no Holidays	Mon-Fri 7am-7pm; with no Holidays

**Table 7.1.2 Baseline Package Units Parameters**

	Building	Magnolia Park	Public Works	Public Works	Public Works
	Unit	AC-2 3 Ton	AC-6 & AC- 7 3 Ton	AC-8 5 Ton	AC-9 3 Ton
		PROPOSED	PROPOSED	PROPOSED	PROPOSED
1.	Economizer	Temperature	Temperature	Temperature	Temperature
	Minimum OSA %	20%	20%	20%	20%

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	Mixed Air Setpoint (°F)	57	57	57	57
	Low Limit (°F)	50	50	50	50
	High Limit (°F)	60	60	60	60
	Enthalpy Limit (Btu/lb)				
2.	kW /Ton (of Compressor & Cond Fan)	0.98	1.02	1.02	1.02
3.	Supply Air Flow (CFM)	1,200	1,200	2,000	1,400
4.	Supply Fan Control	Cycling	Cycling	Cycling	Cycling
	Minimum Air Flow (%)	100.00%	100.00%	100.00%	100.00%
	Motor Efficiency (%)	90.00%	90.00%	90.00%	90.00%
5.	Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%	85.00%
	Heat Pump - H COP (rated at 47°F OSA)				
6.	OCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69.5	69.5	69.5	69.5
	UNOCCUPIED				
	Cooling Setpoint (°F)	74	74	74	74
	Heating Setpoint (°F)	69	69	69	69
7.	OSA Damper Closed at Night?	No	No	No	No
8.	Fan Operation at Night?	Cycling	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No	No
10.	Schedule	Mon-Fri 7am-7pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays	Mon-Fri 5am-6pm; with no Holidays

Table 7.1.3 Baseline Package Units Parameters

Building	Sports and Rec	Sports and Rec	Sports and Rec
Unit	AC-1 & AC-2 25 Ton	AC-3 10 Ton	AC-4 8 Ton
	<b>PROPOSED</b>	<b>PROPOSED</b>	<b>PROPOSED</b>
1. Economizer	Temperature	Temperature	Temperature
Minimum OSA %	20%	20%	20%
Mixed Air Setpoint (°F)	57	57	57
Low Limit (°F)	50	50	50
High Limit (°F)	60	60	60
Enthalpy Limit (Btu/lb)			
2. kW /Ton (of Compressor & Cond Fan)	1.20	1.13	1.13
3. Supply Air Flow (CFM)	10,000	4,000	3,400
4. Supply Fan Control	Cycling	Cycling	Cycling
Minimum Air Flow (%)	100.00%	100.00%	100.00%
Motor Efficiency (%)	90.00%	90.00%	90.00%
5. Gas Furnace - Thermal Efficiency (%)	85.00%	85.00%	85.00%
Heat Pump - H COP (rated at 47°F OSA)			
6. OCCUPIED			
Cooling Setpoint (°F)	74	74	74
Heating Setpoint (°F)	69.5	69.5	69.5
UNOCCUPIED			
Cooling Setpoint (°F)	74	74	74
Heating Setpoint (°F)	69	69	69
7. OSA Damper Closed at Night?	No	No	No

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8.	Fan Operation at Night?	Cycling	Cycling	Cycling
9.	CO2 Sensors?	No	No	No
10.	Schedule	6am-11pm; with no Holidays	6am-11pm; with no Holidays	6am-11pm; with no Holidays

Holiday: New year's day, Martin Luther King, Presidents day, Memorial day, Independence day, Labor day, Veterans day, (2) thanksgiving day, (5) Christmas

### 7.2 Sequence of Operation City Hall AHU-1

#### City Hall

#### System Descriptions

##### AHU-1

Built-up single duct air handler with supply fan w/VFD, relief fan w/VFD, enthalpy controlled economizer, chilled water coils (confirm no hot water heating), and outside air/ mixed air/ supply air/ exhaust air damper. 96 VAV boxes with re-heat serving each zone/space with DDC controls.

##### **Supply Fan (AHU-1)**

- Supply fan will be operated by a programmable time clock. Schedules shall be programmed thru the Siemens central building energy management system. Schedule to be programmed as shown in Table 7.2.1. Supply fan shall run based on the table below.
- The supply fan shall vary in speed in response to a static pressure sensor with a 30% minimum speed for ventilation. "Full" speed shall be determined in the field at the time of the air balance, Siemens to coordinate with Mech subcontractor for air balance.
- Minimum air flow will be set based on minimum airflow required for the required ventilation air. Initial supply static air pressure setpoint shall be 1.0" w.c. Perform a static pressure test to determine optimum static pressure set point.

##### **Return Fan (AHU-1)**

- Return fan shall be interlocked with the supply fan. They will also vary speed based on building static pressure. "Full" speed shall be determined in the field at the time of the air balance. Building static pressure setpoint shall be +0.05" w.c. (+/- .01).

Table 7.2.1: AHU Schedule

AHU	Schedule
AHU-1 & AHU-2	Monday-Thursday & every other Friday: 6am – 7pm

#### **Economizer**



- Economizer shall be based upon outside air dry bulb temperature and relative humidity with both low and high limits.
- When outside air is at the below conditions or less, the economizer cycle shall be enabled

Table 7.2.2: Economizer Temp Parameters

Temp (degrees)	Wet Bulb (degrees)
67.5	61
62.5	57
57.5	53
52.5	49

- When outside air temperature is 2 deg (adjustable) greater than the return air temperature and ambient relative humidity is great than 50%, the economizer cycle shall be disabled. The outside air economizer damper shall be set to minimum.
- When outside air temperature decreases below supply air temperature setpoint (67.5 deg adjustable), the outside air damper shall modulate to maintain desired supply temperature setpoint.

#### Cooling/ Supply Air Reset

- Supply air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, supply temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.2.3: Supply Air Reset Parameters

Return Air Temp	Supply Discharge Temperature
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when outside air temperatures are below 60 degrees.

#### Existing VAV Boxes

- For all VAV boxes heating setpoint shall be 70 degrees and cooling setpoint shall be 74 degrees.
- These setpoints are adjustable from the EMS system only and no controls override shall be available at the room thermostat.

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### 7.3 Sequence of Operation City Hall AHU-2

#### City Hall

#### **System Descriptions**

##### **AHU-2**

Built-up multizone dual duct constant volume air handler with supply fan only serving four zones (N, S, E, W). No economizer, 100% return air, chilled water coils and hot water coils with 2 heating valves (two stage heating valves 1/3 and 2/3). Dual duct air dampers serve each zone with DDC controls.

##### **Supply Fan (AHU-2)**

- Supply fan will be operated by a programmable time clock. Schedules shall be programmed thru the Siemens central building energy management system. Schedule to be programmed as shown in Table 1. Supply fan shall run based on the table below.

Table 7.3.1: AHU Schedule

AHU	Schedule
AHU-1 & AHU-2	Monday-Thursday & every other Friday: 6am – 7pm

#### **Cold Deck**

- Cool deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, cool deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.3.2: Cold Deck Parameters

Return Air Temp	Cool Deck Discharge Temperature
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when cold deck discharge air temperature is satisfied.

#### **Hot Deck**

- Hot deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, hot deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.3.3: Hot Deck Parameters

---

Return Air Temp	Cool Deck Discharge Temperature
30 degrees	105 degrees
70 degrees	75 degrees

- There are 2 stages of heating with 1/3 and 2/3 heating valves. The 1/3 heating water valve shall modulate to maintain hot deck discharge air setpoint, if the temperature cannot be maintained fully open the 1/3 heating valve and modulate the 2/3 heating valve. Both hot water valves shall be off when hot deck discharge air temperature is satisfied.

**Dual Duct airflow control damper**

- Dual duct control dampers shall be modulated by a room heating/cooling thermostat. Simultaneous heating and cooling is not allowed. Cooling duct will normally provide the minimum ventilation air. If room temperature falls below heating setpoint, the cooling damper will close and the heating damper will open and modulate to maintain heating setpoint. Heating setpoints are 68 degrees falling and 70 degrees rising. Cooling setpoints are 74 degrees rising and 72 degrees falling.

## **7.4 Sequence of Operation Police Department AHU-1**

### **Police Department**

#### **System Descriptions**

##### **AHU-1**

Built-up dual duct air handler with supply fan w/VFD, relief fan w/VFD, enthalpy controlled economizer, chilled water coils, heating water coils, outside air/ mixed air/ exhaust air dampers and dual duct VAV air boxes serving each zone/space with DDC controls.

##### **Supply Fan (AHU-1)**

- Supply fan will be operating 24-7.
- The supply fan shall vary in speed in response to a static pressure sensor with a 30% minimum speed for ventilation. "Full" speed shall be determined in the field at the time of the air balance, Siemens to coordinate with Mech subcontractor for air balance.
- Minimum air flow will be set based on minimum airflow required for the required ventilation air. Initial supply static air pressure setpoint shall be 1.0" w.c. Perform a static pressure test to determine optimum static pressure set point.

##### **Return Fan (AHU-1)**

- Return fan shall be interlocked with the supply fan. They will also vary speed based on building static pressure. "Full" speed shall be determined in the field at the time of the air balance. Building static pressure setpoint shall be +0.05" w.c. (+/-0.01).

### Economizer

- Economizer shall be based upon outside air dry bulb temperature and relative humidity with both low and high limits.
- When outside air is at the below conditions or less, the economizer cycle shall be enabled

Table 7.4.1: Economizer Temp Parameters

Temp (degrees)	Wet Bulb (degrees)
67.5	61
62.5	57
57.5	53
52.5	49

- When outside air temperature is 2 deg (adjustable) greater than the return air temperature and ambient relative humidity is great than 50%, the economizer cycle shall be disabled. The outside air economizer damper shall be set to minimum.
- When outside air temperature decreases below supply air temperature setpoint (67.5 deg adjustable), the outside air damper shall modulate to maintain desired supply temperature setpoint.

### Cold Deck

- Cool deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, cool deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.4.2: Cold Deck Parameters

Return Air Temp	Cool Deck Discharge Temperature
90 degrees	55 degrees
70 degrees	65 degrees

- Two-way chilled water valve shall modulate to maintain discharge air setpoint. Chilled water valve shall be off when cold deck discharge air temperature is satisfied.

### Hot Deck

- Hot deck discharge air temperature shall be reset according to programmable reset schedule below. For all other return air temperatures in between, hot deck temperature shall be interpolated on a linear scale between these two temperature points.

Table 7.4.3: Hot Deck Parameters

Return Air Temp	Cool Deck Discharge Temperature
30 degrees	105 degrees
70 degrees	75 degrees

- Hot water valve shall modulate to maintain discharge air setpoint. Hot water valve shall be off when hot deck discharge air temperature is satisfied.

**Dual Duct airflow control damper**

- Dual duct control dampers shall be modulated by a room heating/cooling thermostat. Simultaneous heating and cooling is not allowed. Cooling duct will normally provide the minimum ventilation air. If room temperature falls below heating setpoint, the cooling damper will close and the heating damper will open and modulate to maintain heating setpoint. Heating setpoints are 68 degrees falling and 70 degrees rising. Cooling setpoints are 74 degrees rising and 72 degrees falling.



## Certificate of Substantial Completion

<b>PROJECT NAME:</b>	
<b>CLIENT:</b>	
<b>CERTIFICATE DATE (mm/dd/yyyy):</b>	
<b>CERTIFICATE NUMBER:</b>	
<b>PROJECT NUMBER:</b>	

The following portions of the Work are at Substantial Completion in accordance with the Agreement.  
(Insert unique Work item such as Facility Improvement Measure title, system name, building, etc.)

<b>Work Item:</b>	
<b>Warranty Start Date (mm/dd/yyyy):</b>	
<b>Work Item:</b>	
<b>Warranty Start Date (mm/dd/yyyy):</b>	
<b>Work Item:</b>	
<b>Warranty Start Date (mm/dd/yyyy):</b>	

The Building Technologies Division of Siemens Industry, Inc. guarantees the workmanship and materials of the above Substantially Complete Work in accordance with the Agreement.

The Work indicated above has been reviewed by the CLIENT and has been found, to the best of the CLIENT's knowledge, to be Substantially Complete. Substantial Completion is the milestone in the progress of the Work at which time the Work is sufficiently complete and available for the CLIENT to have beneficial use of the Work for its intended purpose. A list of items to be completed and corrected (if any) shall be identified as the Outstanding Items List, attached to this form, and indicated by checking the appropriate box below:

**Outstanding Items List Attached:** ☐      **No Outstanding Items Noted:** ☐

The failure of the CLIENT to note items requiring completion or correction does not relieve the contractual responsibility of Building Technologies Division of Siemens Industry, Inc. to complete or correct the Work. Work found to require completion or correction after the Certificate Date of this

**Exhibit D-1 – Form of Certificate of Substantial Completion**

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Certificate, but within the warranty period shall be corrected in accordance with the Agreement's warranty provisions.

Building Technologies Division of Siemens Industry, Inc. agrees to complete or correct all items indicated on the Outstanding Items in a timely manner.

Building Technologies Division of Siemens Industry, Inc. Representative: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

The CLIENT accepts the Work indicated above as Substantially Complete and assumes possession and beneficial use of the Work on the Warranty Start Date indicated above.

CLIENT: \_\_\_\_\_

CLIENT Representative: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Note:** The CLIENT shall, upon execution of this Certificate of Substantial Completion, assume all contractual responsibilities for maintenance, insurance, operation, and protection of the Substantially Complete Work in accordance with the Agreement.



### Certificate of Final Completion

<b>PROJECT NAME:</b>	
<b>CLIENT:</b>	
<b>CERTIFICATE DATE (mm/dd/yyyy):</b>	
<b>PROJECT NUMBER:</b>	

All elements of the project Work have been reviewed by the CLIENT and have been found, to the best of the CLIENT's knowledge, to be at Final Completion. All items noted in the Outstanding Items Lists associated with Certificate(s) of Substantial Completion have been resolved, and all Work as defined in Exhibit A of the Agreement is complete.

The failure of the CLIENT to note items requiring completion or correction does not relieve the contractual responsibility of Building Technologies Division of Siemens Industry, Inc. to complete or correct the Work. Work found to require completion or correction after the date of this Certificate, but within the warranty period shall be promptly corrected in accordance with the Agreement's warranty provisions.

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Building Technologies Division of Siemens Industry, Inc. has reviewed the project Work, as well as all contractual requirements, and the requirements for Final Completion have been met.

Building Technologies Division of Siemens Industry, Inc. Representative: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

The CLIENT accepts the project Work as meeting the requirements for Final Completion.

CLIENT: \_\_\_\_\_

CLIENT Representative: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



**City of Garden Grove  
Appendix 1  
Lighting Audit**

Police Station  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED HOURS	OCCUPANCY	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (LIGHTING ONLY)	RWH SAVINGS (LIGHTING AND CONTROLS)	TOTAL RWH	REMARKS	CEILING TYPE	
1	Police Station 1st Floor	Lobby	P	NLED01	12		LED DIT8 10W 7 232 DIRECT/INDIRECT	EXCLUDING NO CHANGE	20	20	7774			0.340	0.340	1,865.76	0.00	0.00	0.00	0.00	Y	A	LAYIN
2	Police Station 1st Floor	Reception	P	NLED01	46		LED DIT8 10W 7 232 DIRECT/INDIRECT	EXCLUDING NO CHANGE	20	20	7774			0.300	0.300	8,996.60	0.00	0.00	0.00	0.00	Y	A	LAYIN
3	Police Station 1st Floor	Report Writing	P	CT16	3		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.165	0.065	1,262.71	489.76	792.95	0.00	792.95	Y	A	LAYIN
4	Police Station 1st Floor	Bedding	P	B16	15		3L F32T8ZMW W/EB 2X4 TROFFER	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	62	32	7774			1.236	0.472	8,562.02	5,868.81	0.00	0.00	5,868.81	Y	A	LAYIN
5	Police Station 1st Floor	Report Writing	P	CT16	8		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.275	0.105	2,137.86	818.27	1,321.56	0.00	1,321.56	Y	A	LAYIN
6	Police Station 1st Floor	Lockers	P2	CT16	7		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	4,235			0.306	0.147	1,830.48	622.55	1,007.93	0.00	1,007.93	Y	A	HARD CAP
7	Police Station 1st Floor	Lockers	P2	KV704-4	2		MH (1) 70W 8" RECESSED CAN	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	95	20	4,235			0.190	0.040	804.86	109.40	635.25	0.00	635.25	Y	A	HARD CAP
8	Police Station 1st Floor	Lockers	P2	B16	1		3L F32T8ZMW W/EB 2X4 TROFFER	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	62	32	4,235			0.682	0.022	347.27	133.40	213.87	0.00	213.87	Y	A	HARD CAP
9	Police Station 1st Floor	Lockers	P2	CT16	3		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	4,235			0.165	0.065	888.76	268.81	431.97	0.00	431.97	Y	A	HARD CAP
10	Police Station 1st Floor	Lockers	P2	KV704-4	1		MH (1) 70W 8" RECESSED CAN	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	95	20	4,235			0.095	0.020	602.33	84.70	317.63	0.00	317.63	Y	A	HARD CAP
11	Police Station 1st Floor	Lockers	P2	B16	13		3L F32T8ZMW W/EB 2X4 TROFFER	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	62	32	4,235			1.066	0.410	4,514.51	1,724.22	2,790.26	0.00	2,790.26	Y	A	HARD CAP
12	Police Station 1st Floor	Armory	P1	NLED01	4		LED DIT8 10W 7 232 DIRECT/INDIRECT	EXCLUDING NO CHANGE	20	20	4,844			0.086	0.086	387.55	387.55	0.00	0.00	0.00	Y	A	HARD CAP
13	Police Station 1st Floor	Hall Next To Armory	P	CT16	1		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.055	0.021	427.57	163.25	264.32	0.00	264.32	Y	A	LAYIN
14	Police Station 1st Floor	Mechanical	P3	A310L	1		4L F32T8ZMW W/EB 8" INDUSTRIAL	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	112	42	3,200			0.112	0.042	366.40	134.40	224.00	0.00	224.00	Y	A	LAYIN
15	Police Station 1st Floor	Custodian	P3	ET16	4		2L F32T8ZMW W/EB 4" STRIP	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	3,200	1	AD	0.226	0.084	704.00	216.64	435.20	53.76	488.84	Y	A	HARD CAP
16	Police Station 1st Floor	Boiler	P3	ET16	4		2L F32T8ZMW W/EB 4" STRIP	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	3,200			0.226	0.084	704.00	216.64	435.20	0.00	435.20	Y	A	HARD CAP
17	Police Station 1st Floor	Shredding	P	CT16	3		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.165	0.065	1,262.71	489.76	792.95	0.00	792.95	Y	A	LAYIN
18	Police Station 1st Floor	Report Writing	P	LED718	3		LED DIT8 10W DIRECT WIRE 4 LED FUTURE	EXCLUDING NO CHANGE	32	32	7774			0.096	0.096	746.30	746.30	0.00	0.00	0.00	Y	A	LAYIN
19	Police Station 1st Floor	IT	P	CT16	2		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.110	0.042	855.14	326.14	528.63	0.00	528.63	Y	A	LAYIN
20	Police Station 1st Floor	In Car Video	P	CT16	3		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	7774			0.165	0.065	1,262.71	489.76	792.95	0.00	792.95	Y	A	LAYIN
21	Police Station 1st Floor	Sergeants	P1	CT16	4		2L F32T8ZMW W/EB 2X4 TROFFER PRISMATIC	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	50	21	4,844			0.226	0.084	1,065.77	408.84	656.94	0.00	656.94	Y	A	LAYIN
22	Police Station 1st Floor	Watch Commander	P1	B16	9		3L F32T8ZMW W/EB 2X4 TROFFER	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	62	32	4,844	1	B1	0.264	0.264	3,575.17	1,068.71	2,506.46	274.68	2,476.68	Y	A	LAYIN
23	Police Station 1st Floor	Come Analysis	P1	B16	4		3L F32T8ZMW W/EB 2X4 TROFFER	LEDJAL RAL1 10.5W 4FT BYPASS LED T8 (NAKED SEPC4 48-10.5-4-40)	62	32	4,844			0.326	0.126	1,088.96	610.36	978.57	0.00	978.57	Y	A	LAYIN

Police Station  
Room by Room Audit

24	Police Station 1st Floor	Living Area	P1	CT16	2					21	4.84				0.116	0.642	532.86	293.46	329.42	0.00	329.42	Y	A	LAY IN
25	Police Station 1st Floor	Cafeteria/Processing	P	CT16	4					21	7.74				0.226	0.884	1,745.26	853.02	1,897.26	0.00	1,897.26	Y	A	LAY IN
26	Police Station 1st Floor	Interview	P	CT16	1					21	7.74				0.066	0.021	427.57	183.25	264.32	0.00	264.32	Y	A	LAY IN
27	Police Station 1st Floor	Photo	P	CT16	2					21	7.74				0.116	0.042	855.14	326.51	528.63	0.00	528.63	Y	A	LAY IN
28	Police Station 1st Floor	Photo	P	CT16	2					21	7.74				0.046	0.016	357.66	124.36	233.22	0.00	233.22	Y	A	LAY IN
29	Police Station 1st Floor	Jail Office	P	CT16	4					21	7.74				0.226	0.084	1,745.26	853.02	1,897.26	0.00	1,897.26	Y	A	LAY IN
30	Police Station 1st Floor	Cafe	P	W108RCC	3					20	7.74				0.384	0.086	2,862.22	486.44	2,518.78	0.00	2,518.78	Y	A	HARD CAP
31	Police Station 1st Floor	Cafe	P	IT5KCC	4					9	7.74				0.300	0.026	2,332.20	278.86	2,052.34	0.00	2,052.34	Y	A	HARD CAP
32	Police Station 1st Floor	155 Jail IT	P	ET16	20					21	7.74				1.160	0.420	8,591.60	3,265.06	5,286.32	0.00	5,286.32	Y	A	LAY IN
33	Police Station 1st Floor	Jail Hallway	P	DW1RECC	6					21	7.74				0.334	0.126	2,862.42	979.52	1,648.36	0.00	1,648.36	Y	A	LAY IN
34	Police Station 1st Floor	Jail Hallway	P	DW1R6	1					21	7.74				0.050	0.021	427.57	163.25	264.32	0.00	264.32	Y	A	LAY IN
35	Police Station 1st Floor	Communications	P	LED17B	8					21	7.74				0.254	0.254	1,890.14	1,890.14	0.00	0.00	0.00	Y	A	LAY IN
36	Police Station 1st Floor	Communications	P	B16	1					21	7.74				0.082	0.032	837.47	244.68	392.56	0.00	392.56	Y	A	LAY IN
37	Police Station 1st Floor	Communications	P	KLED-6	12					12	7.74				0.144	0.144	1,119.46	1,119.46	0.00	0.00	0.00	Y	A	LAY IN
38	Police Station 1st Floor	Communications	P	CT16	7					21	7.74				0.345	0.147	2,992.89	1,142.79	1,850.21	0.00	1,850.21	Y	A	LAY IN
39	Police Station 1st Floor	Crate Provision	P	CT16	8					21	7.74				0.375	0.102	2,137.85	814.27	1,321.58	0.00	1,321.58	Y	A	LAY IN
40	Police Station 1st Floor	Forensic	P	CT16	6					21	7.74				0.275	0.165	2,137.85	814.27	1,321.58	0.00	1,321.58	Y	A	HARD CAP
41	Police Station 1st Floor	Restrooms	P2	CT16	4					21	4.235				0.226	0.064	921.70	353.74	575.96	0.00	575.96	Y	A	HARD CAP
42	Police Station 1st Floor	Restrooms	P2	DW1R6	1					21	4.235				0.056	0.021	223.85	88.94	143.89	0.00	143.89	Y	A	HARD CAP
43	Police Station 1st Floor	Restrooms	P2	IT5KCC	1					9	4.235				0.075	0.009	317.83	38.17	279.51	0.00	279.51	Y	A	HARD CAP
44	Police Station 1st Floor	Coffee	P	ACE23TN-4	1					23	7.74				0.025	0.006	179.85	62.19	116.81	0.00	116.81	Y	A	LAY IN
45	Police Station 1st Floor	Community	P	CT16	3					21	7.74				0.165	0.062	1,382.71	281.81	762.95	0.00	762.95	Y	A	LAY IN
46	Police Station 1st Floor	Child set	P	CT16	1					21	7.74				0.056	0.021	427.57	163.25	264.32	0.00	264.32	Y	A	LAY IN
47	Police Station 1st Floor	Community Policing	P	CT16	5					21	7.74				0.275	0.165	2,137.85	814.27	1,321.58	0.00	1,321.58	Y	A	LAY IN
48	Police Station 1st Floor	Community Policing	P	H2T16	1					18	7.74				0.032	0.016	256.54	124.36	132.16	0.00	132.16	Y	A	LAY IN

**Police Station  
Room by Room Audit**

48	Police Station 1st Floor	Hallway	P	CT18	28	2L FXT2620W W/EB 2X4 TROFFER PRISMATIC	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	7/74			1.430	0.546	11,118.82	4,544.65	0.872.22	0.85	8,872.22	Y	A	LAV IN
49	Police Station 1st Floor	Hallway	P	N1	1	2L FXT2620W W/EB 2X4 TROFFER PRISMATIC	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	24	7/74		0.055	0.024	427.57	188.55	243.88	0.05	243.88	Y	A	LAV IN
50	Police Station 1st Floor	Stairway	P	OW18	2	2L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	21	7/74		0.042	0.042	818.14	328.51	538.63	0.05	538.63	Y	A	LAV IN
51	Police Station 1st Floor	Stairway	P	CF2020VP	3	CF TWIN (2) 2W WALL PACK	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	28	15	7/74		0.025	0.025	464.25	233.22	171.03	0.05	171.03	Y	A	LAV IN
52	Police Station 1st Floor	Perthouse	P3	CF2020VP	2	CF TWIN (2) 2W WALL PACK	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	28	15	7/74		0.025	0.025	168.46	86.05	78.45	0.05	78.45	Y	A	LAV IN
53	Police Station 1st Floor	Perthouse	P3	ET18	1	2L FXT2620W W/EB 4 STOP	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	21	7/74		0.042	0.042	1,936.08	728.20	1,186.88	0.05	1,186.88	Y	A	LAV IN
54	Police Station 1st Floor	Perthouse	P3	CF231W	1	CF (1) 23W SCREW-IN NEUTRAL	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	23	9	7/74		0.023	0.023	73.85	38.85	44.85	0.05	44.85	Y	A	LAV IN
55	Police Station 1st Floor	Exam	E1	X	8	EXIT NOCAN (2) 20W LAMP EXIT	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	40	3	8/70		0.240	0.240	2,102.40	157.86	1,844.54	0.05	1,844.54	Y	A	LAV IN
56	Police Station 1st Floor	Property and Evidence	P3	CT18	2	2L FXT2620W W/EB 2X4 TROFFER PRISMATIC	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	21	7/74		0.042	0.042	382.80	134.40	217.85	0.05	217.85	Y	A	HARD CAP
57	Police Station 1st Floor	Property and Evidence	P3	AST18L	8	4L FXT2620W W/EB 8 INDOOR TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	112	42	7/74		0.042	0.042	1,782.80	872.20	1,120.00	0.05	1,120.00	Y	A	HARD CAP
58	Police Station 1st Floor	Property and Evidence	P3	FT16S	24	1L FXT2620W W/EB 4 STOP	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	31	11	7/74		0.144	0.144	2,368.50	865.40	1,574.40	0.05	1,574.40	Y	A	HARD CAP
59	Police Station 1st Floor	Property and Evidence	P3	ET16S	10	2L FXT2620W W/EB 4 STOP	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	21	7/74		0.042	0.042	2,112.00	868.40	1,305.60	0.05	1,305.60	Y	A	HARD CAP
60	Police Station 1st Floor	Property and Evidence	P3	CF231W	5	CF (1) 23W SCREW-IN JELLY JAR	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	23	9	7/74		0.042	0.042	388.00	144.00	224.00	0.05	224.00	Y	A	HARD CAP
61	Police Station 1st Floor	Property and Evidence	P3	H218S	1	2L FXT2620W W/EB 4 STOP	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	33	18	7/74		0.033	0.033	1,058.80	51.20	54.40	0.05	54.40	Y	A	HARD CAP
62	Police Station 1st Floor	Property and Evidence	P3	ET18	4	2L FXT2620W W/EB 4 STOP	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	21	7/74		0.042	0.042	784.00	288.80	488.20	0.05	488.20	Y	A	HARD CAP
63	Police Station 1st Floor	Gas Pump	P4	W250C	4	NH (1) 250W CEILING CANOPY	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	295	90	4/15		1.188	0.340	5,090.10	1,138.80	4,460.30	0.05	4,460.30	Y	A	LAV IN
64	Police Station 2nd Floor	Captain	P1	B118	4	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	4/44	1	0.120	0.120	1,088.80	488.32	879.37	122.88	1,105.68	Y	A	LAV IN
65	Police Station 2nd Floor	Lawenard	P1	B118	3	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	4/44	1	0.095	0.095	1,181.72	388.24	733.85	81.58	825.48	Y	A	LAV IN
66	Police Station 2nd Floor	Lawenard	P1	N1	1	2L FXT2620W W/EB 2X4 TROFFER PRISMATIC	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	55	24	4/44		0.055	0.055	298.44	118.27	165.16	0.05	165.16	Y	A	LAV IN
67	Police Station 2nd Floor	Cold Case	P1	B118	2	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	4/44	1	0.104	0.104	794.40	344.16	469.20	61.34	550.32	Y	A	LAV IN
68	Police Station 2nd Floor	Sergeant	P1	B118	1	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	4/44		0.082	0.082	397.34	152.65	244.64	0.05	244.64	Y	A	LAV IN
69	Police Station 2nd Floor	Sergeant	P1	B118	1	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	4/44		0.082	0.082	397.34	152.65	244.64	0.05	244.64	Y	A	LAV IN
70	Police Station 2nd Floor	Conference East	P	B118	4	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	7/74	1	0.120	0.120	2,548.87	783.82	1,570.25	185.88	1,796.25	Y	A	LAV IN
71	Police Station 2nd Floor	Conference East	P	CF231WWS	4	CF (1) 23W SCREW-IN WALL SCORCE	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	23	9	7/74		0.082	0.082	715.21	278.88	435.31	0.05	435.31	Y	A	LAV IN
72	Police Station 2nd Floor	Conference West	P	B118	4	3L FXT2620W W/EB 2X4 TROFFER	LED18L R/VLT 18.5W 4FT BYPASS LED 18 (NAED SEP14-48-10.5-H-40)	82	32	7/74	1	0.120	0.120	2,548.87	783.82	1,570.25	185.88	1,796.25	Y	A	LAV IN



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74	Police Station 2nd Floor	P	CF27THW03	4	CF (1) 23W SCREEN+ WALL SCORGE	LEDJL GREEN CREATIVE W/1800 000K ENCLOSED FIX. (NAED BA 100A090 07762)	23	6	7.774			7.774	0.092	6.056	716.21	279.66	435.34	0.00	435.34	Y	A	LAY IN
75	Police Station 2nd Floor	P1	B18	6	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	4.644			4.644	0.462	6.186	2,383.64	816.59	1,487.85	0.00	1,487.85	Y	A	LAY IN
76	Police Station 2nd Floor	P	B18	3	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	7.774			7.774	0.246	6.095	1,912.69	734.64	1,177.76	0.00	1,177.76	Y	A	LAY IN
77	Police Station 2nd Floor	P	N1	1	2L F32T62ZW W/EB 2X2 PRISMATIC	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	56	24	7.774			7.774	0.652	6.026	427.57	185.56	240.59	0.00	240.59	Y	A	LAY IN
78	Police Station 2nd Floor	P	DW16	3	2L F32T62ZW W/EB 4 WRAP	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	66	21	7.774			7.774	0.165	6.000	1,262.71	489.76	792.95	0.00	792.95	Y	A	LAY IN
79	Police Station 2nd Floor	P	N1	1	2L F32T62ZW W/EB 2X2 PRISMATIC	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	56	24	7.774			7.774	0.566	6.024	427.57	185.56	240.59	0.00	240.59	Y	A	LAY IN
80	Police Station 2nd Floor	P2	E18	1	2L F32T62ZW W/EB 4 STRIP	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	56	21	4.235			4.235	0.656	6.021	232.85	83.94	143.99	0.00	143.99	Y	A	HARD CAP
81	Police Station 2nd Floor	P2	ANY18		4L F32T62ZW W/EB 4 WRAP	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	112	42	4.235			4.235	0.112	6.042	474.32	177.87	296.45	0.00	296.45	Y	A	HARD CAP
82	Police Station 2nd Floor	P2	DW18	1	3L F32T62ZW W/EB 4 WRAP	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	56	21	4.235			4.235	0.656	6.021	232.85	83.94	143.99	0.00	143.99	Y	A	HARD CAP
83	Police Station 2nd Floor	P3	CT6	2	2L F32T62ZW W/EB 2X4 TROOPER PRISMATIC	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	56	21	3.200			3.200	0.110	6.042	302.06	134.40	217.66	0.00	217.66	Y	A	LAY IN
84	Police Station 2nd Floor	P	B18	6	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	7.774	1	B1	6.219	0.410	6.156	3,187.34	878.32	1,962.94	0.00	2,007.62	Y	A	LAY IN
85	Police Station 2nd Floor	P	N1	1	2L F32T62ZW W/EB 2X2 PRISMATIC	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	56	24	7.774			7.774	0.656	6.024	427.57	185.56	240.59	0.00	240.59	Y	A	LAY IN
86	Police Station 2nd Floor	P	B18	1	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	7.774			7.774	0.800	6.022	637.47	244.66	392.56	0.00	392.56	Y	A	LAY IN
87	Police Station 2nd Floor	P1	B18	9	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	4.644	1	B1	3.678	0.734	6.264	3,575.17	1,068.71	2,476.46	Y	2,476.46	Y	A	LAY IN
88	Police Station 2nd Floor	P2	B18	11	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	4.236			4.236	0.602	6.347	3,919.97	1,467.43	2,922.54	0.00	2,922.54	Y	A	HARD CAP
89	Police Station 2nd Floor	P2	CF25PRCC	1	CF TWR. (1) 30W RECESSED CEILING CANOPY	LEDJL GREEN CREATIVE 5.5W W/ 1800 000K DIRECT ON BYPASS 0322-2-PR-CFL. (NAED 1-SP-18000R100323-1 (SPR23))	27	17	4.235			4.235	0.027	6.017	114.36	85.86	44.47	0.00	44.47	Y	A	HARD CAP
90	Police Station 2nd Floor	P2	N1	2	2L F32T62ZW W/EB 2X2 PRISMATIC	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	56	24	4.235			4.235	0.110	6.040	466.86	205.26	262.67	0.00	262.67	Y	A	HARD CAP
91	Police Station 2nd Floor	P1	B18	3	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	4.644	1	B1	3.678	0.346	6.095	1,912.72	346.24	733.05	91.56	625.48	Y	A	LAY IN
92	Police Station 2nd Floor	P1	142TES	1	2L F17T8 W/EB 2 STRIP	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	33	16	4.644			4.644	0.632	6.016	159.87	77.51	82.35	0.00	82.35	Y	A	LAY IN
93	Police Station 2nd Floor	P1	B18	14	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	4.644			4.644	1.148	6.441	5,911.37	2,196.36	3,024.99	0.00	3,024.99	Y	A	LAY IN
94	Police Station 2nd Floor	P3	145	1	1L F10T13 W/18 2 STRIP	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	26	8	3.200			3.200	0.026	6.006	80.06	25.60	54.46	0.00	54.46	Y	A	LAY IN
95	Police Station 2nd Floor	P	DW18	3	2L F32T62ZW W/EB 4 WRAP	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	55	21	7.774			7.774	0.165	6.063	1,262.71	489.76	792.95	0.00	792.95	Y	A	LAY IN
96	Police Station 2nd Floor	P	B18	12	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	62	32	7.774			7.774	0.664	6.376	7,648.82	2,893.57	4,711.54	0.00	4,711.54	Y	A	LAY IN
97	Police Station 2nd Floor	P	N1	6	2L F32T62ZW W/EB 2X2 PRISMATIC	LEDJL RVL RW 2FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40) AND MODERN 2X2 3.18 PRISMATICSHALLOW KIT (PWR RKT23-1TW)	56	24	7.774			7.774	0.276	6.120	2,137.85	932.66	1,304.97	0.00	1,304.97	Y	A	LAY IN
98	Police Station 2nd Floor	P	B18	29	3L F32T62ZW W/EB 2X4 TROOPER	LEDJL RVL 15.5W 4FT BYPASS LED T8 (NAED SEPO4-34 40-10-54-40)	62	32	7.774			7.774	2.276	6.914	16,488.57	7,101.56	11,386.02	0.00	11,386.02	Y	A	LAY IN

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00	Police Station 2nd Floor	Open Office	P	N1	3	509	2L PR3270 14 AMP W/EB 320 PRISMATIC	LED BL RMT 2FT 200 PCS LED T8 (AUG 20 SEP 04-34) PRISMATIC/HALLOW KIT (PNE INK 22-317W)	509 B14	7774	509 B14	7774	8.1106	0.046	865.14	373.15	481.89	0.09	481.89	Y	A	KAYIN
										509.342	7774	8.1106	0.046	11.802	181,478.82	73,015.56	108,759.29	1,702.99	108,463.26			

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WALLPAPER	PROPOSED WALLPAPER	EXISTING OPENING HOURS	QUANTITY	OCCUPANCY / SENSOR TYPE	PROPOSED OPERATING HOURS	EXISTING RW	PROPOSED RW	EXISTING RW	PROPOSED RW	RNH SAVINGS (LAUNCHING ONLY)	RNH SAVINGS (CONTROLS ONLY)	TOTAL RNH AL 140 B: 14-34 C: 15-34 D: 16-34 E: 17-34 F: 18-34	CELEMS TYPE	
1	Police Station Exterior	Police Station Exterior	P4	W100WP	7		MH, (1) 100W WALL PACK		(LED) NEW RAB 20 WATT D.C. LED WALLPACK	128	20	4,745			4,745	0.086	0.140	4,251.02	684.30	3,887.22	9.90	3,567.22	B	
2	Police Station Exterior	Police Station Exterior	P4	W400LFL	3		MH, (1) 400W POLE FLOOD		(LED) NEW MANULITE 100W AREA LIGHT TYPE 5K BRONZE SLIP FITTER KNICKLE & ROUND POLE (P/N) AR-SMAL-100-U-74-02-BK-SK-ARPA)	428	140	4,745			4,745	1.274	0.420	6,519.83	1,982.90	4,520.72	0.00	4,520.72	C	
3	Police Station Exterior	Police Station Exterior	P4	I21E13	3		2x F175R WEB 2 STRIP		(LED) IL RMT RW 2FT BYPASS LED TRIMMED SEPC4-34 (P/N) 4040)	33	18	4,745			4,745	0.098	0.048	468.76	227.75	242.00	0.00	242.00	A	
4	Police Station Exterior	Police Station Exterior	P4	W100FL	1		MH, (1) 100W FLOOD		(LED) NEW RAB 20 WATT D.C. LED FLOOD	128	20	4,745			4,745	0.126	0.020	887.30	94.90	912.46	0.00	912.46	A	
5	Police Station Exterior	Police Station Exterior	P4	W400SHOEP L	4		MH, (1) 400W SHOEBOX POLE		(LED) AND SUPERIOR LIFE 140W SHOEBOX NETROFIT 5K (P/N) LED VS SHOEBOX NETROFIT (862311)	458	144	4,745			4,745	1.822	0.976	8,002.84	2,733.17	5,950.72	0.00	5,950.72	C	
6	Police Station Exterior	Police Station Exterior	P4	W200SHOEP L	3		MH, (1) 200W SHOEBOX POLE		(LED) AND SUPERIOR LIFE 70W 5K LED VS SHOEBOX NETROFIT (P/N) LED VS SHOEBOX NETROFIT (862311)	295	72	4,745			4,745	0.596	0.146	2,790.58	683.26	2,116.27	0.00	2,116.27	C	
7	Police Station Exterior	Police Station Exterior	P4	W060ROLL	6		MH, (1) 60W ROLLAND		(LED) IL GREEN CREATIVE 18.5W X3 5K HD BYPASS (P/N) LED311850277(WPT738)	72	19	4,745			4,745	0.432	0.111	2,049.84	538.75	1,521.15	0.00	1,521.15	A	
8	Police Station Exterior	Police Station Exterior	P4	W100GNDVAL	16		MH, (1) 70W GROUND VALUAT		(LED) IL GREEN CREATIVE 18.5W X3 5K HD BYPASS (P/N) LED311850277(WPT738)	95	19	4,745			4,745	0.950	0.185	4,587.75	877.83	3,629.93	0.00	3,629.93	A	
9	Police Station Exterior	Police Station Exterior	P4	W100CEC	2		MH, (1) 200W CEILING CANOPY		(LED) NEW DECO 80W LED 12 X 13 SQUARE CANOPY 5000K PHOTO CELL (P/N) D308-LED-00-00-JW-02-PC)	295	60	4,745			4,745	0.986	0.120	2,780.55	548.40	2,230.15	0.00	2,230.15	A	
10	Police Station Exterior	Police Station Exterior	P4	W175GLBTP	20		MH, (1) 175W GLOBE POST TOP		(LED) IL SUPERIOR 40W MODULE D.C. LED NETROFIT	215	45	4,745			4,745	4.200	0.800	20,403.00	4,376.05	16,133.00	0.00	16,133.00	A	
					58					47,650	47,650			47,650	11,181	2,864	53,301.24	12,649.86	40,466.12	0.00	40,466.12			

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LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	EXISTING LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	OCCUPANCY TYPE	EXISTING KW	PROPOSED KW	EXISTING RM	PROPOSED RM	KWH SAVINGS (EXISTING ONLY)	KWH SAVINGS (COMBINED LIGHTING CONTROLS)	TOTAL KWH (COMBINED LIGHTING CONTROLS)	REPORT	CEILING TYPE		
1	Juvenile Justice	Conference	P	BPTS	4	3L FXT2020W W/EB 2X4 TROFFER PARABOLIC	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	7.774	1	B1	8.219	0.328	0.126	2.540	782.62	1.570	185.36	A	LAV IN	
2	Juvenile Justice	Storage	P3	BWTS	1	3L FXT2020W W/EB 2 X WRAP	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	3.200			3.200	0.082	0.032	282.40	100.80	181.60	0.00	181.60	A	LAV IN
3	Juvenile Justice	Breakroom	P	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	7.774	1	B1	8.219	0.164	0.080	1.274	391.81	785.17	87.26	883.13	Y	LAV IN
4	Juvenile Justice	Investigator	P1	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	AD	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
5	Juvenile Justice	Investigator	P1	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	AD	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
6	Juvenile Justice	Investigator	P1	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	AD	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
7	Juvenile Justice	Sergeant	P1	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	AD	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
8	Juvenile Justice	Office	P1	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	AD	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
9	Juvenile Justice	Open Office	P	BTS	18	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	7.774			7.774	1.476	0.587	11.074	4.697	7.066	0.57	7.066	Y	LAV IN
10	Juvenile Justice	Open Office	P	N1	2	2L F8270 LAMP W/EB 2X3 PRISMATIC	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40) AND MODERN 2X2 3.75 PRISMATIC-FALLOW KIT (P/N K122-3.17M)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	55	24	7.774			7.774	0.110	0.046	655.14	373.15	481.99	0.00	481.99	Y	LAV IN
11	Juvenile Justice	Lobby	P	BTS	7	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	7.774			7.774	0.974	0.221	4.482	1.714	2.748	1.1	2.748	Y	LAV IN
12	Juvenile Justice	Lobby	EX	X1	1	EXIT CF (37W LAMP EXIT	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	21	3	8.700			8.700	0.021	0.005	183.96	26.26	157.69	0.00	157.69	Y	LAV IN
13	Juvenile Justice	Restroom	P2	CT8	2	2L FXT2020W W/EB 2X4 TROFFER PRISMATIC	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	95	21	4.228			4.228	0.110	0.042	468.85	177.87	287.98	0.00	287.98	Y	LAV IN
14	Juvenile Justice	Hallway	P3	CT8	3	2L FXT2020W W/EB 2X4 TROFFER PRISMATIC	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	55	21	3.200			3.200	0.165	0.083	528.00	201.60	226.40	0.00	226.40	Y	LAV IN
15	Juvenile Justice	Conference	P1	BPTS	2	3L FXT2020W W/EB 2X4 TROFFER PARABOLIC	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844	1	B1	3.876	0.164	0.080	794.46	244.16	488.28	81.04	569.32	Y	LAV IN
16	Juvenile Justice	15	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN
17	Juvenile Justice	16	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN
18	Juvenile Justice	17	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN
19	Juvenile Justice	18	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN
20	Juvenile Justice	File	P1	DWTS	1	2L FXT2020W W/EB 2 X WRAP	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	55	21	4.844			4.844	0.056	0.021	298.44	181.71	184.71	0.00	184.71	Y	LAV IN
21	Juvenile Justice	Play Room	P	BTS	2	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	7.774			7.774	0.164	0.083	1.274	391.81	785.17	0.00	785.17	Y	LAV IN
22	Juvenile Justice	19	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN
23	Juvenile Justice	19	P1	BTS	1	3L FXT2020W W/EB 2X4 TROFFER	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	LEDIA RVAL 10.5W AFT BYPASS LED T8 (MAED SEPC4-46-10.5-4-40)	82	32	4.844			4.844	0.082	0.032	397.24	152.60	244.64	0.00	244.64	Y	LAV IN



Juvenile Justice  
Room by Room Audit

24	Juvenile Justice	22	P1	B18	1		3L F32T60SW W/EB 2X4 TROFFER	(LED) RMT 10.5W AFT BYPASS LED T8 (NAED SEP04-48-10.5M-48)	82	4,844		4,844	0.002	397.24	132.60	244.64	0.00	244.64	Y	A	LAY IN
25	Juvenile Justice	Label	P3	B18	1		3L F32T60SW W/EB 2X4 TROFFER	(LED) RMT 10.5W AFT BYPASS LED T8 (NAED SEP04-48-10.5M-48)	82	3,200		3,200	0.002	262.40	100.80	181.60	0.00	181.60	Y	A	LAY IN
26	Juvenile Justice	Kitchen	P	B18	2		3L F32T60SW W/EB 2X4 TROFFER	(LED) RMT 10.5W AFT BYPASS LED T8 (NAED SEP04-48-10.5M-48)	82	7,774		7,774	0.164	1,274.94	480.70	785.17	0.00	785.17	Y	A	LAY IN
27	Juvenile Justice	Hallway	P	C18	5		2L F32T60SW W/EB 2X4 TROFFER PRISMATIC	(LED) RMT 10.5W AFT BYPASS LED T8 (NAED SEP04-48-10.5M-48)	85	7,774		7,774	0.275	2,137.65	818.27	1,321.50	0.00	1,321.50	Y	A	LAY IN
28	Juvenile Justice	Family Rm	P	B18	2		3L F32T60SW W/EB 2X4 TROFFER	(LED) RMT 10.5W AFT BYPASS LED T8 (NAED SEP04-48-10.5M-48)	82	7,774		7,774	0.164	1,274.94	480.70	785.17	0.00	785.17	Y	A	LAY IN
										181,468	8.402	2.100	34,095.85	13,108.38	22,237.48	660.00	22,897.48				
										180,383											

Junvelle Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST	PROPOSED BALLAST / LUMINAIRE	LAMP /	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOMES	PROPOSED HOMES	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (EXISTING ONLY)	RWH SAVINGS (CONTROLLED ONLY)	TOTAL RWH (CONTROLLED + UNCONTROLLED)	URGENT A: 1-4 B: 10-4 C: 20-4 D: 30-4 E: 40-4 F: 50-4	CEILING TYPE
1	Junvelle Justice Exterior	Building Mount	P4	LED20WP	12		LED (120W FUTURE WALL PACK		EXCLUDING CHANGE		20	20	4.745	4.745	0.240	0.240	1.138.80	1.138.80	0.00	0.00	0.00	A	
2	Junvelle Justice Exterior	Pole	P4	WTHSLUPT	4		MH (1) 170W GLOBE POST TOP		LED 1L SUPERIOR 45W MODUL DLC LED RETROFIT		215	45	4.745	4.745	0.860	0.166	4,082.70	854.10	3,228.60	0.00	3,228.60	A	
3	Junvelle Justice Exterior	Building Mount	P4	CF20PPL	1		CF TWIN (1) 20W FLOOD		(LED) XL GREEN CREATIVE 8.5W 4K 2700 DIRECT OR BYPASS 0.003 5-9W 2700K 5-9W 2700K (P2020)		27	17	4.745	4.745	0.027	0.017	128.12	78.25	49.87	0.00	49.87	A	
4	Junvelle Justice Exterior	Building Mount	P4	WTHRCC	6		MH (1) 70W RECESSED CEILING CANOPY		(LED) NEW MPRLUX 8000K RECESSED CANOPY 12x12 (P40 CUPCEILING 5000K )		95	20	4.745	4.745	0.475	0.100	2,253.36	474.50	1,778.86	0.00	1,778.86	A	
					22								18.890	18.890	1.802	0.537	7,011.48	2,545.88	8,558.36	0.00	8,558.36		

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	EQUI CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	OCCUPANCY ESTIMATED PER HOUR	PROPOSED OPERATING HOURS	EXISTING RMW	PROPOSED RMW	RPMW (EXISTING AND PROPOSED ONLY)	RPMW (EXISTING AND PROPOSED ONLY)	TOTAL RPMW (SAVINGS) (EXISTING AND PROPOSED CONTROLS)	HEIGHT A: 1-8 B: 9-14 C: 15-24 D: 25-36 E: 37-48 F: 49+	CILING TYPE		
1	Police Annex	Hallway	PA	CT6	3		3L FXT020ZW W/EB 2X4 TROFFER PRISMATIC		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 RAISED SEPOGA 48-10.5-44-40		50	21	2,721			0.003	481.60	171.42	310.18	0.00	310.18	A	LAY IN	
2	Police Annex	Hallway	PA	KQ13SP-4	1		CF TWK1 Q1 TWK #F RECESSED CAN		(LED) AND GE BRNCH 10.5W 4FT RETROFIT DOWNLIGHT (PWR FACTS 10-54-40-SO-CLEAR-V-LU)		28	18	2,721			0.016	78.18	42.17	34.01	0.00	34.01	A	LAY IN	
3	Police Annex	Office	PA	B18	6		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 RAISED SEPOGA 48-10.5-44-40		87	32	2,721	1	B1	2,177	0.522	1,453.31	411.40	900.06	102.26	A	LAY IN	
4	Police Annex	Office	PA	B18	6		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 RAISED SEPOGA 48-10.5-44-40		87	32	2,721	1	B1	2,177	0.522	1,453.31	411.40	900.06	102.26	A	LAY IN	
5	Police Annex	Office	PA1	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,541	1	A0	1,233	0.174	0.003	390.20	77.68	19.42	190.82	A	LAY IN
6	Police Annex	Office	PA1	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,541	1	A0	1,233	0.174	0.003	265.20	77.58	18.42	180.82	A	LAY IN
7	Police Annex	Office	PA1	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,541	1	A0	1,233	0.174	0.003	265.20	77.58	18.42	180.82	A	LAY IN
8	Police Annex	Conference	PA	B18	6		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	2,721	1	B1	2,177	0.832	0.198	1,453.31	411.40	100.06	1,000.91	A	LAY IN
9	Police Annex	Class	PA3	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,120			0.174	0.003	194.68	70.56	124.32	0.00	124.32	A	LAY IN
10	Police Annex	Recreation	PA2	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,346			0.174	0.003	234.47	84.89	143.57	0.00	143.57	A	LAY IN
11	Police Annex	Recreation	PA2	B18	2		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	1,346			0.174	0.003	234.47	84.89	143.57	0.00	143.57	A	LAY IN
12	Police Annex	Gange	PA	B18	10		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	2,721			1.653	5.598	4,487.65	1,628.46	2,869.18	0.00	2,869.18	A	LAY IN
13	Police Annex	Mechanical	PA3	CT6	1		2L FXT020ZW W/EB 2X4 TROFFER PRISMATIC		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		09	21	1,100			0.059	0.021	66.08	27.52	42.56	0.00	42.56	A	LAY IN
14	Police Annex	Open Office	PA	B18	54		3L FXT020ZW W/EB 2X4 TROFFER		MEDIAL R/V/LT 10.5W 4FT BYPASS LED T8 (MAED SEPOGA 48-10.5-44-40)		87	32	2,721			1.216	8.441	3,314.06	1,189.32	2,114.74	0.00	2,114.74	A	LAY IN
																					TOTAL			
													20,688	20,688	20,688	4,942	2,764	14,924	2,779.42	8,144.58	6,779.90			

Police Annex Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS OF OPERATION	QUANTITY	OCCUPANCY CATEGORY	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (EXISTING ONLY)	RWH SAVINGS (PROPOSED ONLY)	TOTAL RWH (COMBINED AND CONTROLS)	USGWT A: 1-15 B: 16-30 C: 31-45 D: 46-60 E: 61-75 F: 76+	CEILING TYPE
1	Police Annex Elevator	Pole	P4A	W25GSHOEP L	1		MH, (1) 325W, SHOEDOX POLE	(LED) AND SUPERIOR LIFE 72W 5K LED VS SHOEDOX NETWORK (PMF LED VS SHOEDOX NETWORK) (BAYD)	295	72	1,681			1,681	0.295	0.072	463.82	118.57	370.35	0.00	370.35	C	
2	Police Annex Elevator	Building Mount	P4A	LTB	6		2x F27022W W/ E2 2x4 TRUOTER PRISMATIC	MEDIA RVL 10.5W 40T PRISM LED 18 (WAS SEPC4-48-115-54-2)	58	21	1,681			1,681	0.235	0.105	468.57	174.38	315.54	0.00	315.54	A	
3	Police Annex Elevator	Building Mount	P4A	CF220PCC	4		CF TWIN (7) 30W CEILING CANOPY	(LED) NEW INFRELUX 5000K RECESSED CANOPY 12X12 (PMF CLIPDCL18-01-5000K)	51	29	1,681			1,681	0.234	0.089	334.79	132.86	205.83	0.00	205.83	A	
4	Police Annex Elevator	Building Mount	P4A	S150FL	2		HPS (1) 150W FLOOD	(LED) NEW DECO 30W FLOOD 3K BRONZE YORE MOUNT (PMF D211-30-5000K-Y4-EC24C)	168	30	1,681			1,681	0.276	0.090	824.44	88.62	524.86	0.00	524.86	B	
					12						8,643	8,643		8,643	1.170	0.317	1,843.08	626.43	1,418.82	0.00	1,418.82		

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPENING HOURS	PROPOSED OPENING HOURS	QUANTITY	OCCUPANCY / WORK TYPE	EXISTING HRS	PROPOSED HRS	EXISTING KW	PROPOSED KW	EXISTING KW/H	PROPOSED KW/H	KWH SAVINGS (MONTHLY)	KWH SAVINGS (ANNUAL)	TOTAL KWH (ANNUAL)	RECOMMENDED KWH (ANNUAL)	CLIMATE TYPE
1	Cay Hall 1st Floor	Lobby	CH1	K22SP10	22		CF TWM, (1) 20W R RECESSED CAN	(LED) AND GE 24W 18 INCH 4X RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND GE 24W 18 INCH 4X RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	51	24	4,300	4,300	4,300	1.122	0.528	4,624.66	2,270.40	0.00	2,554.26	0.00	2,554.26	Y	A	LAY IN	
2	Cay Hall 1st Floor	Lobby	CH1	K24SP-4	23		CF QUAD, (1) 20W R RECESSED CAN	(LED) AND HALO 6 RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND HALO 6 RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	33	13	4,300	4,300	4,300	0.768	0.304	3,263.70	1,505.46	0.00	1,958.22	0.00	1,958.22	Y	A	LAY IN	
3	Cay Hall 1st Floor	Lobby	CH1	K23SP-4	14		CF TWM, (1) 20W R RECESSED CAN	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	51	20	4,300	4,300	4,300	0.714	0.295	3,075.26	1,504.00	0.00	1,861.26	0.00	1,861.26	Y	A	LAY IN	
4	Cay Hall 1st Floor	Lobby Restrooms	CH15	ET1VAN	6		2L FXT2X20W W/EB VANTY	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	59	21	1,440	1,440	1,440	0.354	0.126	609.76	181.44	0.00	328.32	0.00	328.32	Y	A	LAY IN	
5	Cay Hall 1st Floor	Back Hallway	CH1	K26SP-4	11		CF TWM, (1) 20W R RECESSED CAN	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	51	20	4,300	4,300	4,300	0.581	0.220	2,412.30	948.00	0.00	1,464.30	0.00	1,464.30	Y	A	LAY IN	
6	Cay Hall 1st Floor	Employee Restrooms	CH15	K25SP-4	7		CF TWM, (1) 20W R RECESSED CAN	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	51	20	1,440	1,440	1,440	0.357	0.140	514.86	201.00	0.00	313.86	0.00	313.86	Y	A	LAY IN	
7	Cay Hall 1st Floor	Employee Restrooms	CH15	FT1S	2		1L FXT2X20W W/EB 4" STMP	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	31	11	1,440	1,440	1,440	0.802	0.021	88.26	30.34	0.00	58.04	0.00	58.04	Y	A	LAY IN	
8	Cay Hall 1st Floor	Employee Restrooms	CH15	K26SP-4	7		CF TWM, (1) 20W R RECESSED CAN	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND GE BNC1 20W 4X RETROFIT DOWNLIGHT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	51	20	1,440	1,440	1,440	0.357	0.140	514.86	201.00	0.00	313.86	0.00	313.86	Y	A	LAY IN	
9	Cay Hall 1st Floor	Employee Restrooms	CH15	FT1S	2		1L FXT2X20W W/EB 4" STMP	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	31	11	1,440	1,440	1,440	0.802	0.021	88.26	30.34	0.00	58.04	0.00	58.04	Y	A	LAY IN	
10	Cay Hall 1st Floor	Open Office	CH1	NPR17B31	30		2L FRO1718 W/EB 2X2 PARABOLIC	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	56	24	4,300	4,300	4,300	1.666	0.720	7,224.00	3,098.00	0.00	4,126.00	0.00	4,126.00	Y	A	LAY IN	
11	Cay Hall 1st Floor	Open Office	CH1	AT16PEN	3		4L FXT2X20W W/EB 4" PENDANT	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	(LED) RVL 18.5W 4FT BYPASS LED T8 (NAMED BEPCL-48-10-54-40)	112	42	4,300	4,300	4,300	0.336	0.126	1,444.80	541.60	0.00	903.00	0.00	903.00	Y	A	LAY IN	
12	Cay Hall 1st Floor	Open Office	CH1	K24AP-4	12		CF QUAD, (1) 20W R RECESSED CAN	(LED) AND HALO 6 RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	(LED) AND HALO 6 RECESSED CAN RETROFIT KIT (PMF RCL-30-40WD-SD-CL-ARR-V-10)	33	13	4,300	4,300	4,300	0.394	0.156	1,760.40	681.12	0.00	1,079.28	0.00	1,079.28	Y	A	LAY IN	
13	Cay Hall 1st Floor	Open Office	CH1	LED178	180		LED 1718 HW DIRECT WIRE 4 LED FUTURE	EXCLUDING CHANGE																		

**City Hall  
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24	City Hall 3rd Floor	Lobby Restrooms	CH125	ETWAN	8		2L F2XTR62W W/EB VANITY	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	58	21	1,440				1,440	6.472	879.66	241.82	437.76	0.00	437.76	Y	A	LAV RN	
25	City Hall 3rd Floor	3rd Floor	CH11	LED716	160		LED 12716 RW DIRECT WIRE 4 LED FIXTURE	EXCLUDING CHANGE	32	32	4,300				4,300	8.130	22,616.00	22,616.00	0.00	0.00	0.00	0.00	Y	A	LAV RN
26	City Hall 3rd Floor	3rd Floor	CH11	K2267P10	16		CF TWM (2) 20W 10" RECESSED CAN	(LED) AND GE 24W 10 INCH 4K RECESSED CAN RETRO FIT (PMB RC-2-20-4-10-WO-SD-CL-MH-V-16)	51	24	4,300				4,300	0.816	3,596.80	1,651.20	1,657.60	0.00	1,657.60	Y	A	LAV RN	
27	City Hall 3rd Floor	3rd Floor	CH11	NPS25B11	48		2L F2XTR62W W/EB 2X2 PARABOLIC	(LEDIAK RAL7 RW 27" BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48) AND MODERN 2X2 X 18 PARABOLIC RECESSED RET (PMB RAL7-2-31PM)	58	24	4,300				4,300	2.240	9,932.00	4,138.00	5,504.00	0.00	5,504.00	Y	A	LAV RN	
28	City Hall 3rd Floor	3rd Floor	CH11	ASTBL	2		4L F2XTR62W W/EB 8" INDUSTRIAL	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	112	42	4,300				4,300	0.234	993.20	381.20	602.00	0.00	602.00	Y	A	LAV RN	
29	City Hall 3rd Floor	3rd Floor	CH11	K2267P-4	14		CF TWM (2) 20W 8" RECESSED CAN	(LED) AND GE 24W 8 INCH 4K RETROFIT DOWNLIGHT (PMB RC-2-20-4-10-WO-SD-CL-MH-V-16)	51	26	4,300				4,300	0.714	3,870.20	1,304.00	1,866.20	0.00	1,866.20	Y	A	LAV RN	
30	City Hall 3rd Floor	Peristhouse		ETK05	14		2L F2XTR62W W/EB 4" STRIP	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	58	21	0				0	0.026	0.294	0.00	0.00	0.00	0.00	Y	A	HAND CAP	
31	City Hall 3rd Floor	Peristhouse		DVTR	4		2L F2XTR62W W/EB 4" VAPOR TIGHT	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	58	21	0				0	0.236	0.664	0.00	0.00	0.00	0.00	Y	A	HAND CAP	
32	City Hall 3rd Floor	Peristhouse		ASTBL	2		4L F2XTR62W W/EB 8" INDUSTRIAL	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	112	42	0				0	0.224	0.664	0.00	0.00	0.00	0.00	Y	A	HAND CAP	
33	City Hall 3rd Floor	Peristhouse		DVTR	1		2L F2XTR62W W/EB 4" WRAP	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	58	21	0				0	0.056	0.021	0.00	0.00	0.00	0.00	Y	A	HAND CAP	
34	City Hall 3rd Floor	Peristhouse		PTES	1		1L F2XTR62W W/EB 4" STRIP	(LEDIAK RAL7 18.5W AFT BYPASS LED T8 (NAKED SEPGA-48-15.5-H-48)	31	11	0				0	0.031	0.011	0.00	0.00	0.00	0.00	Y	A	HAND CAP	
									101,802	31,133	21,826	121,805.00	89,354.52	32,251.36	0.00	0.00	30,251.36								
									795																

## City Hall Ext.

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	OCCUPANCY BEHAVIOR TYPE	PROPOSED OPERATING HOURS	EXISTING RW	PROPOSED RW	EXISTING RW	PROPOSED RW	RW1 SAVINGS (CALCULATED ONLY)	RW2 SAVINGS (CALCULATED ONLY)	TOTAL RW SAVINGS (COMBINED)	COMMENTS	HERSIT
1	City Hall Exterior	Building Mount	CH6	W10WPP	1		MH, (1) 100W WALL PACK	(LED) NEW RAB 20 WATT DUC WALLPACK	128	20	4.745	4.745	0.126	0.020	607.35	94.50	512.45	0.00	512.45	A	
2	City Hall Exterior	Pole	CH6	W253HOP	0		MH, (1) 250W SHOEDOX POLE	(LED) AND SUPERIOR LIFE 72W 3K LED VS SHOEDOX RETROFIT (PM LED VS SHOEDOX RETROFIT(10783))	295	72	4.745	4.745	2.855	0.048	12,987.96	3,874.78	9,322.22	0.00	9,322.22	C	
3	City Hall Exterior	Pole	CH6	LEDASHOEP	2		LED (190W) FUTURE SHOEDOX POLE	EXCLUDING CHANGE	80	80	4.745	4.745	0.126	0.126	588.45	569.45	0.00	0.00	0.00	C	
4	City Hall Exterior	Building Mount	CH6	RW150-8	6		MH, (1) 150W IF RECESSED CAN	(LED) LIT GREEN CREATIVE 150W A31 9K HO BYPASS (MADE IN USA) (6528777W17736)	180	19	4.745	4.745	0.111	0.111	8,488.35	838.70	4,882.61	0.00	4,882.61	A	
5	City Hall Exterior	Building Mount	CH6	P217HO	1		FLUO (2) 80" HO IF STRIP	(LED) RMT 183W AFT BYPASS LED 18 (MADE SERVIC 48-115-140) AND MODERN 18T INDUSTRIAL STRIP TO 4-6" LAMP KIT (PM R55C-1517AMH)	267	42	4.745	4.745	0.207	0.042	962.27	199.35	782.03	0.00	782.03	A	
											23.725	4.250	0.881	203.186-25	4,685.05	15,701.21	0.00	15,701.21			



**Gem Theatre  
Room by Room Audit**

LINE	FLOOR, BUILDING / AREA	ROOM	AREA TYPE	EDS CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPENING HOURS	OCCUPANCY SENSOR TYPE	PROPOSED OPENING HOURS	EXISTING RW	PROPOSED RW	RW SAVINGS (LIGHTING ONLY)	RW SAVINGS (SCENARIOS AND LIGHTING ONLY)	TOTAL RW	REMARKS	CEILING TYPE	
1	Gen Theatre	Equipment Storage	G1	DW18	16		2L FXT820ZW W/ EB 4" VAPOR TIGHT		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	1.002	0.378	343.96	623.44	0.00	623.44	A	OPEN TRUSS
2	Gen Theatre	Restrooms	G2	FT15	4		1L FXT820ZW W/ EB 4" STRIP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	31	11	810		810	0.124	0.042	112.84	38.22	74.62	74.62	A	HARD CAP
3	Gen Theatre	Restrooms	G3	DW18	6		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	0.344	0.126	322.14	114.66	207.48	207.48	A	HARD CAP
4	Gen Theatre	Hot Water	G3	CP23TW	1		CF (1) 23W SCHEDWAVE KEYLESS		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	23	9	910		910	0.023	0.006	20.80	8.16	12.74	12.74	A	HARD CAP
5	Gen Theatre	Dressing	G1	DW18	5		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	1,820		1,820	0.295	0.105	538.50	191.10	345.80	345.80	A	HARD CAP
6	Gen Theatre	Dressing	G1	FT15	10		1L FXT820ZW W/ EB 4" STRIP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	31	11	1,820		1,820	0.310	0.105	564.20	191.10	372.10	372.10	A	HARD CAP
7	Gen Theatre	Dressing	G1	HT15	24		1L F1778 W/ EB 2" STRIP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	20	8	1,820		1,820	0.446	0.102	873.80	349.44	524.16	524.16	A	HARD CAP
8	Gen Theatre	Storage	G1	IT5	7		INCAN (1) 75W KEYLESS		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	75	9	1,820		1,820	0.525	0.003	955.50	114.66	840.84	840.84	A	HARD CAP
9	Gen Theatre	Back Stage	G1	DW18	16		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	1,820		1,820	1.002	0.378	1,832.84	687.96	1,244.88	1,244.88	A	HARD CAP
10	Gen Theatre	Theatre	G1	DW18	14		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	1,820		1,820	0.826	0.294	1,503.32	535.86	968.34	968.34	B	OPEN TRUSS
11	Gen Theatre	Lobby	G2	K175-4	22		INCAN (1) 75W 4" RECESSED CAN		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	75	14	810		810	2.400	0.446	2,184.00	407.88	1,776.32	1,776.32	A	HARD CAP
12	Gen Theatre	Lobby	G2	IT5V5	4		INCAN (1) 75W WALL SCONCE		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	75	9	910		910	0.300	0.036	273.90	32.76	240.34	240.34	A	HARD CAP
13	Gen Theatre	Lobby	G2	DW18	3		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	0.177	0.003	161.67	87.32	103.74	103.74	A	HARD CAP
14	Gen Theatre	Restroom	G3	K24P-4	1		CF (1) 24W 4" RECESSED CAN		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	33	13	810		810	0.033	0.013	30.60	12.91	18.62	18.62	A	HARD CAP
15	Gen Theatre	Restrooms	G3	DW18	4		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	0.236	0.084	214.76	78.44	136.32	136.32	A	HARD CAP
16	Gen Theatre	Restrooms	G3	K4715	2		2L F1778 W/ EB 2" STRIP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	33	18	910		910	0.666	0.032	60.66	26.12	30.94	30.94	A	HARD CAP
17	Gen Theatre	Lobby Restrooms	G3	ETRVAN	6		2L FXT820ZW W/ EB VANITY		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	0.334	0.126	322.14	114.66	207.48	207.48	A	HARD CAP
18	Gen Theatre	2nd Floor	G2	K175-4	25		INCAN (1) 75W 4" RECESSED CAN		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	75	14	910		910	1.875	0.330	1,706.25	318.36	1,387.75	1,387.75	A	HARD CAP
19	Gen Theatre	2nd Floor	G2	DW18	13		2L FXT820ZW W/ EB 4" WRAP		LEDJDL RVL2T 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40)	59	21	910		910	0.787	0.272	887.87	249.42	448.54	448.54	A	HARD CAP
20	Gen Theatre	2nd Floor	G2	IT5V5	6		INCAN (1) 75W WALL SCONCE		LEDJDL GREEN CREATIVE 16.5W 4FT BYPASS LED T8 (NAED SEFG4 48-10.5-4-40) ENCLOSURE	75	9	910		910	0.656	0.054	409.50	49.14	360.36	360.36	A	HARD CAP
21	Gen Theatre	2nd Floor	G2	U38 10C	26		INCAN (1) 25W B10C CANDELABRA CHANDELER		LEDJDL GREEN CREATIVE LED B11 CANDELABRA BASE (10" DIA) 250 WATT (250W) (10" DIA)													



**Gem Theatre  
Room by Room Audit**

24	Gem Theatre	2nd Floor	G2	K24AP-4	8	CF QUAD, (1) 20W R RECESSED CAN	(LED) AND HALO R RECESSED CAN RETROFIT LED (12.2W ea. (PMI PLR20W/2000K))	33	13	910		910	0.196	0.078	180.16	77.87	108.11	0.00	108.11	Y	A	HARD CAP
25	Gem Theatre	Restrooms	G3	F11E5	8		(LED) HL RVT 18.5W AFT BYPASS LED T8 (NAED SEP04-48-15.5-M-40)	31	11	910		910	0.166	0.065	168.36	97.33	111.83	0.00	111.83		A	HARD CAP
26	Gem Theatre	Storage	G3	DW1E	8		(LED) HL RVT 18.5W AFT BYPASS LED T8 (NAED SEP04-48-15.5-M-40)	39	21	910		910	0.331	0.189	483.21	171.86	311.25	0.00	311.25		A	HARD CAP
27	Gem Theatre	Stairway	G1	FW1E	4		(LED) HL RVT 18.5W AFT BYPASS LED T8 (NAED SEP04-48-15.5-M-40)	31	11	1,820		1,820	0.124	0.042	225.66	78.44	143.26	0.00	143.26		A	HARD CAP
28	Gem Theatre	Dressing Rooms	G1	HW1AN	44		(LED) HL CREEP (CREEP) 18.5W (25.7W 20W DIM BRIGHT) (NAED) (NAED) (1717)	40	6	1,820		1,820	1.700	0.264	3,203.26	488.48	2,722.72	0.00	2,722.72	Y	A	HARD CAP
					322					33,760		33,760	16.816	4.102	19,287.16	5,048.31	14,243.87	0.00	14,243.87			

Gem Theatre Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	BSM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE / LAMP / BALLAST / LUMINAIRE	PROPOSED	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	QUANTITY	OCCUPANCY	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (CONTROLS ONLY)	RWH SAVINGS (LIGHTING ONLY)	TOTAL RWH (COMBINED LIGHTING AND CONTROLS)	USGWT	CEILING TYPE
1	Gem Theatre Exterior	Building Mount	GA	W150WP	8		ML (1) 150W WALL PACK	(LED) IREX MAX LED WALLPACK SMALL WALL PACK 50W 4800LM 5000K BRONZE LRV ILC W720V BUTTON PHOTOCELL (PMS WP5508US08PC10088)	180	50	3.322	1710	0.450	8.879	1.604	0.00	4.185	0.00	4.185	0.00	4.185	A
2	Gem Theatre Exterior	Building Mount	GA	PTMFL	4		1L PARTS WEB # 578P	48-165-400 AND MODERN 8FT INDUSTRIAL STEP TO AFT LAMP KIT (PMS R03C-3257ANM)	58	21	3.322	0.222	0.084	770.58	279.81	0.00	481.58	0.00	481.58	0.00	481.58	A
3	Gem Theatre Exterior	Building Mount	GA	KCE23-A	2		CF (1) 23W SCREW-IN RECESSED CAN	(LED) IREX MAX LED WALLPACK SMALL WALL PACK 50W 4800LM 5000K BRONZE LRV ILC W720V BUTTON PHOTOCELL (PMS WP5508US08PC10088)	23	8	3.322	0.046	0.016	152.79	53.14	0.00	99.65	0.00	99.65	0.00	99.65	A
4	Gem Theatre Exterior	Building Mount	GA	CF23TWPP	1		CF (1) 23W SCREW-IN WALL PACK	(LED) IREX MAX LED WALLPACK SMALL WALL PACK 50W 4800LM 5000K BRONZE LRV ILC W720V BUTTON PHOTOCELL (PMS WP5508US08PC10088)	23	9	3.322	0.022	0.009	78.38	28.88	0.00	49.50	0.00	49.50	0.00	49.50	A
5	Gem Theatre Exterior	Pole	GA	S150SHOEPL	4		HP5 (1) 150W SHOEBOX POLE	(LED) AND SUPERIOR LIFE 12W 3K LED VS SHOEBOX RETROFIT (PMS LED VS SHOEBOX RETROFIT (03783))	188	72	3.322	0.152	0.248	2,487.77	858.58	0.00	1,541.18	0.00	1,541.18	0.00	1,541.18	B
					20				18,808	2,783	0.847	8,177.30	2,813.31	8,363.99	2.00	8,363.99	2.00	8,363.99	2.00	8,363.99	2.00	8,363.99

**Amphitheatre  
Room by Room Audit**

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	SCM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / PROPOSED BALLAST / LUMINAIRE	LAMP	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	EXISTING KW	PROPOSED KW	EXISTING RW	PROPOSED RW	RWH SAVINGS (CONTROLS ONLY)	RWH SAVINGS (CONTROLS ONLY)	TOTAL RWH SAVINGS (CONTROLS ONLY)	HEIGHT	CEILING TYPE	
1	Amphitheatre	Open Area	AM	CT6	11		2L F32T8/32W W/EB 2X4 TROFFER PRISMATIC	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,424	0.849	0.231	823.85	328.83	595.02	0.00	595.02	Y	A	JAY IN
2	Amphitheatre	Locked Office	AM1	CT6	8		2L F32T8/32W W/EB 2X4 TROFFER PRISMATIC	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,660	0.354	0.126	597.78	209.21	378.57	0.00	378.57	Y	A	JAY IN
3	Amphitheatre	Storage	AM1	CT6	2		2L F32T8/32W W/EB 2X4 TROFFER PRISMATIC	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,660	0.118	0.042	195.82	69.74	126.08	0.00	126.08		A	JAY IN
4	Amphitheatre	Open Area	AM	CT6	26		2L F32T8/32W W/EB 2X4 TROFFER PRISMATIC	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,424	1.852	0.586	2,351.82	837.02	1,514.80	0.00	1,514.80	Y	A	JAY IN
5	Amphitheatre	Open Area	AM	H03AN	76		INCAN (1) 40W VARIETY	(LED)HL GREEN CREATIVE BW G25 27K 120V/OM ENERGY (NAED 902500MR27 (8729))		40	6	1,424	3.640	0.456	4,327.44	849.12	3,478.32	0.00	3,478.32	Y	A	JAY IN
6	Amphitheatre	Restrooms	AM	CT6	3		2L F32T8/32W W/EB 2X4 TROFFER PRISMATIC	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,424	0.177	0.063	251.96	89.26	162.70	0.00	162.70		A	JAY IN
7	Amphitheatre	Snack Bar	AM1	DW16	6		2L F32T8/32W W/EB 4" WRAP	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,660	0.354	0.126	597.78	209.21	378.57	0.00	378.57		A	JAY IN
8	Amphitheatre	Restrooms	AM	DW16	10		2L F32T8/32W W/EB 4" WRAP	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,424	0.590	0.210	839.87	298.94	540.93	0.00	540.93		A	JAY IN
9	Amphitheatre	Curtain	AM1	ET6	3		2L F32T8/32W W/EB 4" STOP	(LED)DL RPLT 10.5W 4FT BYPASS LED T8 (NAED SEPOL-48-10.5-4-40)		59	21	1,660	0.177	0.063	251.96	104.61	162.26	0.00	162.26		A	JAY IN
											13,729			1,905	10,800.12	2,788.34			8.00	7,563.78		
											145											

Amphitheatre Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	QUANTITY	OCCUPANCY / ROOM TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RHT	PROPOSED RHT	KWH SAVINGS (LIGHTING ONLY)	KWH SAVINGS (CONTROLS ONLY)	TOTAL KWH SAVINGS (COMBINED LIGHTING & CONTROLS)	HEIGHT A: 1-16 B: 16-34 C: 35-44 D: 45-64 E: 65-84	CEILING TYPE
1	Amphitheatre Exterior	Building Mount	AM2	T5FL	2		BRCAN (1) 175W FLOOD		(LED) V. GREEN CREATIVE BA180W 4000K ENCLOSURE 120027Y (NAED 17P43050605J0027Y (101841)	75	17	1.886		1.886	0.150	0.034	284.70	84.33	220.17	0.00	220.17	A	
2	Amphitheatre Exterior	Building Mount	AM2	CF23TW	1		CF (1) 23W SCREW-IN KEYLESS		(LED) V. GREEN CREATIVE BA180W 4000K ENCLOSURE FIX (NAED BA180W400 87782)	23	9	1.886		1.886	0.023	0.009	43.80	17.90	26.57	0.00	26.57	A	
3	Amphitheatre Exterior	Building Mount	AM2	W175WP	3		M4 (1) 175W WALL PACK		(LED) NEW MAXITE LED WALLPACK SMALL WALL PACK 50W 4800 LM 5000K BRONZE LUMI DLC W/120V BUTTON PHOTOCELL (PWR WP55080A08PC2(100881)	215	50	1.886		1.886	0.845	0.150	1,224.21	284.70	870.51	0.00	870.51	A	
4	Amphitheatre Exterior	Building Mount	AM2	PW18	3		1" F27B23ZW W/ER WRAP		(LED) IL R4LT 10.8W AFT BYPASS LED T8 (NAED SEP04-44-10-5-4-43)	31	11	1.886		1.886	0.093	0.032	175.51	59.78	116.73	0.00	116.73	A	
5	Amphitheatre Exterior	Building Mount	AM2	W175WP	5		M4 (1) 175W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT SK BRONZE PHOTO CELL (PWR DA10LED-30-50-1N43Z-PC)	85	20	1.886		1.886	0.475	0.100	807.50	189.80	711.75	0.00	711.75	A	
6	Amphitheatre Exterior	Building Mount	AM2	CF212PWIP	2		CF TWK (2) 12W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT	28	15	1.886		1.886	0.056	0.030	100.26	58.94	48.36	0.00	48.36	A	
					18									11.385	1.442	0.355	2,738.92	672.84	2,066.08	0.00	2,066.08		

**Courtyard Center  
Room by Room Audit**

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE#	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	OCCUPANCY CATEGORY	EXISTING KW	PROPOSED KW	EXISTING RPH	PROPOSED RPH	EXISTING RPH	PROPOSED RPH	RPH BALASTS (CONTROLS ONLY)	RPH BALASTS (CONTROLS AND CONTROLS)	TOTAL RPH BALASTS (CONTROLS AND CONTROLS)	AC	HEIGHT	CEILING TYPE
1	Courtyard Center	Activity Center	CY	DWTS	19		2L FXT200ZW W/ EB 4' WRAP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	1.96A		1.96A	0.090	0.210	1.181.12	413.28	747.84	0.00	747.84	Y	A	LAY IN	
2	Courtyard Center	Activity Center	CY	KLED-6	34		LED (112W 6' RECESSED CAN F' RECESSED CAN		EXCLUDING CHANGE	12	12	1.96A		1.96A	0.288	0.288	568.78	568.78	0.00	0.00	Y	A	LAY IN		
3	Courtyard Center	Activity Center	CY	KTS-6	1		INCAN (112W 6' RECESSED CAN		(LED) AND HALO F' RECESSED CAN RETROFIT LED 13.2W 4K (PM 15.5W/1994)	75	13	1.96A		1.96A	0.075	0.075	147.60	25.38	121.82	0.00	121.82	Y	A	LAY IN	
4	Courtyard Center	Activity Center	EX	X1	2		EXIT CF (2) 1W LAMP EXIT		(LED) NEW MODERN EXT LED (PM 16.5W/1994)	21	3	6.760		6.760	0.042	0.042	397.82	52.56	315.38	0.00	315.38	Y	A	LAY IN	
5	Courtyard Center	Outside Restrooms	CY1	AWTS	2		4L FXT200ZW W/ EB 4' WRAP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	112	42	984		984	0.224	0.094	220.42	82.96	137.78	0.00	137.78	Y	A	HARD CAP	
6	Courtyard Center	Outside Restrooms	CY1	ITRWP	2		INCAN (112W WALL PACK		(LED) NEW SYLVANIA IS WATT LED DLC PORCH LIGHT	75	15	984		984	0.150	0.030	147.60	29.52	118.08	0.00	118.08	Y	A	HARD CAP	
7	Courtyard Center	Outside Restrooms	CY1	240CC	2		INCAN (2) 40W CEILING CANOPY		(LED) IL GREEN CREATIVE 16.5W 4000K ENCLOSED FPL (NAED 16.5W/1994)	80	8	984		984	0.160	0.016	157.44	17.71	139.72	0.00	139.72	Y	A	HARD CAP	
8	Courtyard Center	Plumbing Chase	CY1	ETES	1		2L FXT200ZW W/ EB 4' STRIP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	984		984	0.059	0.021	58.00	26.88	37.29	0.00	37.29	Y	A	HARD CAP	
9	Courtyard Center	Plumbing Chase	CY1	CF23TW	2		CF (1) 12W SCREW-IN KEYLESS		(LED) IL GREEN CREATIVE 16.5W 4000K ENCLOSED FPL (NAED 16.5W/1994)	23	9	984		984	0.048	0.018	45.28	17.71	27.58	0.00	27.58	Y	A	HARD CAP	
10	Courtyard Center	Meeting Rm	CY	KLED-6	28		LED (112W 6' RECESSED CAN F' RECESSED CAN		EXCLUDING CHANGE	12	12	1.96A		1.96A	0.240	0.240	472.32	472.32	0.00	0.00	Y	A	LAY IN		
11	Courtyard Center	Kitchen	CY	ASTL	3		4L FXT200ZW W/ EB 6' INDUSTRIAL		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	112	42	1.96A		1.96A	0.336	0.128	861.25	247.97	413.28	0.00	413.28	Y	A	LAY IN	
12	Courtyard Center	Kitchen	CY	ITSLJ	1		INCAN (112W JELLY JAR		(LED) IL GREEN CREATIVE 16.5W 4000K ENCLOSED FPL (NAED 16.5W/1994)	75	9	1.96A		1.96A	0.075	0.009	147.60	17.71	129.88	0.00	129.88	Y	A	LAY IN	
13	Courtyard Center	Restroom	CY1	DWTS	1		2L FXT200ZW W/ EB 4' WRAP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	984		984	0.059	0.021	58.00	26.88	37.29	0.00	37.29	Y	A	HARD CAP	
14	Courtyard Center	Office	CY1	CTB	2		2L FXT200ZW W/ EB 24" TROFFER PRISMATIC		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	984		984	0.177	0.063	174.17	61.39	112.16	0.00	112.16	Y	A	LAY IN	
15	Courtyard Center	Office	CY1	CTB	2		2L FXT200ZW W/ EB 24" TROFFER PRISMATIC		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	984		984	0.116	0.042	118.11	41.33	74.78	0.00	74.78	Y	A	LAY IN	
16	Courtyard Center	Hallway	CY	K132P-6	13		CF TWIN (1) 12W 6' RECESSED CAN		(LED) IL GREEN CREATIVE 16.5W 4K 5PM DIRECT OR BYPASS 5003 5PM 4K 5PM (PM 15.5W/1994)	15	6	1.96A		1.96A	0.185	0.072	383.76	140.71	243.05	0.00	243.05	Y	A	LAY IN	
17	Courtyard Center	Hallway	CY	258100WS	8		INCAN (112W 8" CANDELABRA WALL SCONCE		(LED) IL GREEN CREATIVE LED B11 CANDELABRA BASE LAMP 8W 300 LM 2700K DM (NAED 8W 100LM/1994)	25	5	1.96A		1.96A	0.200	0.040	395.50	79.72	314.88	0.00	314.88	Y	A	LAY IN	
18	Courtyard Center	Open Area	CY	DWTS	6		2L FXT200ZW W/ EB 4' WRAP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	1.96A		1.96A	0.288	0.105	568.78	208.84	373.82	0.00	373.82	Y	A	LAY IN	
19	Courtyard Center	Restrooms	CY1	DWTS	6		2L FXT200ZW W/ EB 4' WRAP		(LED)2L R/LT 10.5W 4FT BYPASS LED T8 (NAED SEP-CA-48-10.5-4-40)	59	21	984		984	0.354	0.126	348.34	123.80	224.55	0.00	224.55	Y	A	LAY IN	
20	Courtyard Center Entrance	Entrance	CY2	CF23TWCC	1		CF (1) 23W SCREW-IN CEILING CANOPY		(LED) IL GREEN CREATIVE 16.5W 4000K ENCLOSED FPL (NAED 16.5W/1994)	23	6	5.110		5.110	0.023	0.009	117.53	48.99	71.54	0.00	71.54	Y	A	LAY IN	
21	Courtyard Center Entrance	Entrance	CY2	K132P-6	2		CF TWIN (1) 12W 6' RECESSED CAN		(LED) IL GREEN CREATIVE 16.5W 4K 5PM DIRECT OR BYPASS 5003 5PM 4K 5PM (PM 15.5W/1994)	15	6	5.110		5.110	0.045	0.017	228.86	84.32	144.54	0.00	144.54	Y	A	LAY IN	
22	Courtyard Center Entrance	Entrance	CY2	WTRWP	9		M4 (1) 70W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT 9K BRONZE PHOTO CELL (PM 16.5W/1994)	85	20	5.110		5.110	0.855	0.180	4300.85	819.80	3489.25	0.00	3489.25	Y	A	LAY IN	
23	Courtyard Center Entrance	Entrance	CY2	WTRWP	1		M4 (1) 70W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT 9K BRONZE PHOTO CELL (PM 16.5W/1994)	85	20	5.110		5.110	0.095	0.020	485.45	102.20	383.25	0.00	383.25	Y	A	LAY IN	

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24	Courtyard Center Exterior	Exterior	CY2	ETB	3	2L F527NAXW W/EB 4 STRIP	LEDIAL R/LT 10.0W 4FT BYPASSLED TR (NAED SEP04-46-10-3-H40)	59	21	5.110	0.177	0.003	804.47	321.83	502.54	0.00	502.54	A	
25	Courtyard Center Exterior	Exterior	CY2	2H80C	1	INCAN, (2) 40W CEILING CANOPY	(LED)IL GREEN CREATIVE 14.1W/4.0W/8.0W/ENCLD PFC (NAED MAT08MAG 07782)	80	8	5.110	0.090	0.009	408.85	45.99	362.81	0.00	362.81	A	
26	Courtyard Center Exterior	Exterior	CY2	IT5GRNORL	8	INCAN, (1) 75WPAR38 GROUND FLOOD	(LED)IL GREEN CREATIVE 17W PAR38 4K LAMP 120/277V (NAED 17PAR38GARNRFL0277V (10184))	75	17	5.110	0.500	0.156	3,066.00	894.96	2,271.04	0.00	2,271.04	A	
27	Courtyard Center Exterior	Exterior	CY2	IT5FL	6	INCAN, (1) 75W FLOOD	(LED)IL GREEN CREATIVE 17W PAR38 4K LAMP 120/277V (NAED 17PAR38GARNRFL0277V (10184))	75	17	5.110	0.450	0.102	2,295.50	521.22	1,778.28	0.00	1,778.28	A	
					140				78,208	78,203	6.008	2.007	18,083.71	8,378.31	12,713.40	0.00	12,713.40		

Village Green  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED	EXISTING WATTAGE	EXISTING HOURS	EXISTING OPERATING HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (LIGHTING ONLY)	RWH SAVINGS (CONTROLS ONLY)	TOTAL RWH (COMBINED LIGHTING AND CONTROLS)	UNITS	CEILING TYPE
1	Village Green Park	Park Poles	VG	W100SHCE PL	22		MH (1) 100W SHOEDX POLE		LED) NEW DECO VMW LED (AC) 400 400 400 VMW TYPE 3 ROUND POLE MOUNT PHOTOCELL (PM 1003-LED-300 50-UM-12-RPM-BZ-PC)	300	1,825	1,825	23.760	6.800	43.362.00	12.945.00	31,317.00	0.00	31,317.00	A: 1-15 B: 16-34 C: 35-54 D: 55-99 E: 100-999	
											1,825	1,825	23.760	6.800	43.362.00	12.945.00	31,317.00	0.00	31,317.00	D	



LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECR CODE	QUANTITY	ESTIMATE#	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	OCCUPANCY SENSOR TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED (LIGHTING ONLY)	RWH SAVING (CONTROLS ONLY)	TOTAL RWH SAVING (LIGHTING AND CONTROLS)	CEILING TYPE	USGBC B1: 1-15 B2: 16-34 C: 35-54 D: 55-64 E: 65-74 F: 75-84	
1	CAC	Dining	CAC	CT6	32		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)XL RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110		1.848	0.872	5,871.86	3,781.76	0.00	3,781.76	A	LAY IN	
2	CAC	Kitchen	CAC	DWT8	3		2L F32T8ZW W/EB 4" WRAP	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110		0.177	0.083	550.47	364.54	0.00	364.54	A	LAY IN	
3	CAC	Kitchen	CAC	AST8L	6		4L F32T8ZW W/EB 8" INDUSTRIAL	(LED)4L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	112	42	3,110		0.560	0.210	1,741.80	1,088.50	0.00	1,088.50	A	LAY IN	
4	CAC	Kitchen	CAC	IFSLJ	1		BCAN, (1)175W JELLY JAR	(LED)1L GREEN ORNATE ALUMINUM BRASS ENCLOSED FIX (NAMED IN100MM40 87703)	75	0	3,110		0.076	0.000	233.25	205.26	0.00	205.26	A	LAY IN	
5	CAC	Game Room	CAC	K132P-4	12		CF, TWIN (2)13W 4" RECESSED CAN	(LED) AND HALO 8" RECESSED CAN RETROFIT LED (13.2W 4K (PIN R5.50W19940)	28	13	3,110		0.336	0.160	1,044.96	492.82	0.00	952.34	A	LAY IN	
8	CAC	Game Room	CAC	CT6	26		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110		1.534	0.546	4,770.74	1,938.06	0.00	3,072.64	A	LAY IN	
7	CAC	Game Room	CAC	PWT8	2		1L F32T8ZW W/EB WRAP	(LED)1L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	31	11	3,110		0.082	0.021	182.82	65.31	0.00	127.51	A	LAY IN	
8	CAC	Restrooms	CAC	CT6	4		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	58	21	1,555		0.236	0.084	366.96	130.82	0.00	236.36	A	HARD CAP	
9	CAC	Restrooms	CAC	KLSD-6	7		LED (1)12W 6" RECESSED CAN 8" RECESSED CAN	EXCLUDED/NO CHANGE	12	12	1,555		0.084	0.084	130.82	0.00	0.00	0.00	A	HARD CAP	
10	CAC	Activity Room	CAC	CT6	30		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110		1.770	0.830	5,594.70	1,559.30	0.00	3,545.40	A	LAY IN	
11	CAC	Activity Room	CAC	DWT8	1		2L F32T8ZW W/EB 4" WRAP	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110		0.060	0.021	183.49	65.31	0.00	118.18	A	LAY IN	
12	CAC	Activity Room	CAC	FTT6	4		1L F32T8ZW W/EB 4" STRIP	(LED)1L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	31	11	3,110		0.124	0.042	383.64	130.82	0.00	253.02	A	LAY IN	
13	CAC	Hallway	CAC	N217	6		2L F17T8 W/EB 2X2 PRISMATIC	(LED)2L RVALT RW 2FT BYPASS LED T8 (NAMED SEPG4-24-8-4-40)	33	16	3,110		0.264	0.128	821.04	398.96	0.00	422.96	A	LAY IN	
14	CAC	Office	CAC	CT6	2		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110	1	AD	0.118	0.042	366.96	104.50	26.12	262.48	A	LAY IN
15	CAC	Office	CAC	CT6	2		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110	1	AD	0.116	0.042	366.96	104.50	26.12	262.48	A	LAY IN
16	CAC	Conference	CAC	CT6	2		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110	1	81	0.116	0.042	366.96	104.50	26.12	262.48	A	LAY IN
17	CAC	Conference	CAC	N217	2		2L F17T8 W/EB 2X2 PRISMATIC	(LED)2L RVALT RW 2FT BYPASS LED T8 (NAMED SEPG4-24-8-4-40)	33	16	3,110	X		0.006	0.032	205.26	79.82	19.86	125.64	A	LAY IN
18	CAC	Open Office	CAC	CT6	4		2L F32T8ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVALT 10.9W AFT BYPASS LED T8 (NAMED SEPG4-48-10.5-4-40)	59	21	3,110	1									



CMC  
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22	CMC	Office	CMC1	NZ17	2		2L F1718 W/EB 2X2 PRISMATIC	LED1X1 R/LT RW 2FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	33	18	3.110	1	AD	2.488	0.066	0.032	205.26	78.02	105.74	18.86	125.64	Y	A	LAY IN
23	CMC	Office	CMC1	CTB	2		2L F32762ZW W/EB 2X4 TROFFER PRISMATIC	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	3.110	1	AD	2.488	0.118	0.042	366.96	104.50	236.36	26.12	282.48	Y	A	LAY IN
24	CMC	Office	CMC1	N017	2		2L F1718 W/EB 2X2 PRISMATIC	LED1X1 R/LT RW 2FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	33	18	3.110	1	AD	2.488	0.066	0.032	205.26	78.02	105.74	18.86	125.64	Y	A	LAY IN
25	CMC	Mechanical	CMC3	F185	1		1L F32762ZW W/EB 4" STRIP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	31	11	1.200			1.200	0.031	0.011	37.20	12.86	24.60	0.00	24.60		A	HARD CAP
26	CMC	Community Center Rm A	CMC	ATB	46		4L F32762ZW W/EB 2X4 TROFFER PRISMATIC	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	112	42	3.110			3.110	5.376	2.016	183.19	6.287	10.448	0.00	10.448	Y	A	LAY IN
27	CMC	Community Center Rm A	CMC	LED18EC	8		LED (1178 18W DIRECT WIRE DECORATIVE	EXCLUDED/NO CHANGE	18	18	3.110			3.110	0.096	0.096	298.56	298.56	0.00	0.00	0.00	Y	A	LAY IN
28	CMC	Community Center Rm A	CMC	F15TRK	4		RICAN, (1) 75W R40 TRACK	LED1X1 GREEN CREATIVE 148R40K 120V DM (NMD 148R40G0832 (40837))	75	14	3.110			3.110	0.300	0.066	833.00	174.16	759.84	0.00	759.84	Y	A	LAY IN
29	CMC	Clear Storage	CMC3	ETB5	5		2L F32762ZW W/EB 4" STRIP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	1.200	1	B1	860	0.295	0.105	354.00	100.90	228.00	25.20	233.20		A	HARD CAP
30	CMC	B Room	CMC	ATB	23		4L F32762ZW W/EB 2X4 TROFFER PRISMATIC	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	112	42	3.110			3.110	2.578	0.066	8,011.36	3,004.26	5,007.10	0.00	5,007.10	Y	A	LAY IN
31	CMC	B Room	CMC	LED18EC	2		LED (1178 18W DIRECT WIRE DECORATIVE	EXCLUDED/NO CHANGE	18	18	3.110			3.110	0.032	0.032	99.32	99.32	0.00	0.00	0.00	Y	A	LAY IN
32	CMC	B Room	CMC	DWY18	1		2L F32762ZW W/EB 4" WRAP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	3.110			3.110	0.096	0.021	183.49	65.31	118.16	0.00	118.16	Y	A	LAY IN
33	CMC	B Room	CMC	K21207-A	1		CE. TWIN (2) 13W 8" RECESSED CAN	(LED) AND MAID 6" RECESSED CAN RETROFIT LED 13.2W 4K (PM PL50W91940)	28	13	3.110			3.110	0.028	0.013	87.26	41.00	46.00	0.00	46.00	Y	A	LAY IN
34	CMC	Kitchen	CMC	INDUCT10CC	19		INDUCTION (117W) ROUND CEILING CANOPY	(LED) NEW DECO 40W SURFACE CANOPY 4K BRONZE (PM D356LED-40G0UN-1W)	79	40	3.110			3.110	0.790	0.400	2,456.00	1,244.00	1,212.00	0.00	1,212.00		A	HARD CAP
35	CMC	Kitchen	CMC	DWY18	1		2L F32762ZW W/EB 4" WRAP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	3.110			3.110	0.096	0.021	183.49	65.31	118.16	0.00	118.16		A	HARD CAP
36	CMC	Consultation	CMC	NLED08	12		LED (218 10W 2' 2X2 DIRECT/INDIRECT	EXCLUDED/NO CHANGE	20	20	3.110			3.110	0.240	0.240	746.40	746.40	0.00	0.00	0.00	Y	A	LAY IN
37	CMC	Counsel Chambers	CMC	NLED08	12		LED (218 10W 2' 2X2 DIRECT/INDIRECT	EXCLUDED/NO CHANGE	20	20	3.110			3.110	0.240	0.240	746.40	746.40	0.00	0.00	0.00	Y	A	LAY IN
38	CMC	Counsel Chambers	CMC	LED18TR	12		LED (117W) SCREEN IN TRACK	EXCLUDED/NO CHANGE	8	8	3.110			3.110	0.096	0.096	298.56	298.56	0.00	0.00	0.00	Y	A	LAY IN
39	CMC	Counsel Chambers	CMC	RLED-6	18		LED (112W 6" RECESSED CAN 6" RECESSED CAN	EXCLUDED/NO CHANGE	12	12	3.110			3.110	0.216	0.216	871.76	871.76	0.00	0.00	0.00	Y	A	LAY IN
40	CMC	Electrical	CMC3	ETB5	3		2L F32762ZW W/EB 4" STRIP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	1.200			1.200	0.177	0.083	212.40	75.60	138.60	0.00	138.60		A	HARD CAP
41	CMC	Electrical	CMC3	F185	1		1L F32762ZW W/EB 4" STRIP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	31	11	1.200			1.200	0.031	0.011	37.20	12.86	24.60	0.00	24.60		A	HARD CAP
42	CMC	Electrical	CMC3	ETB	2		2L F32762ZW W/EB 4" STRIP	LED1X1 R/LT 10.5W 4FT BYPASS LED T8 (NMD SEP04-14-10-5-H-40)	59	21	1.200			1.200	0.118	0.042	141.60	55.40	91.20	0.00	91.20		A	HARD CAP
43	CMC	Founders	CMC	NLED08	9		LED (218 10W 2' 2X2 DIRECT/INDIRECT	EXCLUDED/NO CHANGE	20	20	3.110			3.110	0.160	0.160	559.60	559.60	0.00	0.00	0.00	Y	A	LAY IN
44	CMC	Founders	CMC	RLED-8	12		LED (118W 8" RECESSED CAN 8" RECESSED CAN	EXCLUDED/NO CHANGE	18	18	3.110			3.110	0.182	0.182	597.12	597.12	0.00	0.00	0.00	Y	A	LAY IN

CMC  
Room by Room Audit

45	CMC	Office	CMC1	KLED-6	12	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	EXCLUDING NO CHANGE	12	12	3,110		3,110	0.144	0.144	447.84	447.84	0.00	0.00	0.00	Y	A	LAY IN			
46	CMC	Office	CMC1	CTR	16	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	59	21	3,110	1	81	2,488	0.590	0.210	1,534.90	522.48	1,181.80	1,312.42	Y	A	LAY IN			
47	CMC	Office	CMC1	FTRS	4	1L F3XTB20ZW W/EB 4" STRIP	1L F3XTB20ZW W/EB 4" STRIP	(LED)1L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	31	11	3,110			3,110	0.124	0.042	385.64	130.62	255.02	0.00	255.02	Y	A	LAY IN		
48	CMC	Office	CMC1	CTR	2	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	59	21	3,110	1	AD	2,488	0.116	0.042	366.96	104.50	236.36	26.12	262.48	Y	A	LAY IN		
49	CMC	Office	CMC1	N217	2	2L F1778 W/EB 2X2 PRISMATIC	2L F1778 W/EB 2X2 PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	33	16	3,110	1	AD	2,488	0.068	0.032	206.26	79.62	105.74	19.90	125.64	Y	A	LAY IN		
50	CMC	Office	CMC1	CTR	2	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	59	21	3,110	1	AD	2,488	0.116	0.042	366.96	104.50	236.36	26.12	262.48	Y	A	LAY IN		
51	CMC	Office	CMC1	N217	2	2L F1778 W/EB 2X2 PRISMATIC	2L F1778 W/EB 2X2 PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	33	16	3,110	1	AD	2,488	0.068	0.032	206.26	79.62	105.74	19.90	125.64	Y	A	LAY IN		
52	CMC	Open Area	CMC	KLED-6	24	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	EXCLUDING NO CHANGE	12	42	3,110			3,110	0.288	0.288	895.68	895.68	0.00	0.00	0.00	Y	A	LAY IN		
53	CMC	Open Area	CMC	LED/RECE	3	LED (1178 18W DIRECT WIRE DECORATIVE	LED (1178 18W DIRECT WIRE DECORATIVE	EXCLUDING NO CHANGE	18	18	3,110			3,110	0.048	0.048	149.28	149.28	0.00	0.00	0.00	Y	A	LAY IN		
54	CMC	Restrooms	CMC2	CTR	4	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	59	21	1,555			1,555	0.236	0.064	366.96	130.62	236.36	0.00	236.36		A	HARD CAP		
55	CMC	Restrooms	CMC2	KLED-6	6	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	LED (112W) 6" RECESSED CAN 6" RECESSED CAN	EXCLUDING NO CHANGE	12	12	1,555			1,555	0.072	0.072	111.96	111.96	0.00	0.00	0.00		A	HARD CAP		
56	CMC	2nd Floor	CMC	CTR	16	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	2L F3XTB20ZW W/EB 2X4 TROFFER PRISMATIC	(LED)2L RVL1 10.5W 4FT BYPASS LED T8 (N/A) SEPOL-46-10.5-H-40)	59	21	3,110	2	81	2,488	1.082	0.370	3,392.82	940.46	2,177.24	235.12	2,362.36	Y	A	LAY IN		
										147,576	22,548	9,616	67,858.40	20,154.97	38,998.91	894.57	39,933.48									
										158,390																

CMC Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	BSN CODE	QUANTITY	ESTIMATE 1	EXISTING LUMINAIRE	LAMP / BALLAST /	PROPOSED BALLAST / LUMINAIRE	LAMP	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED OPERATING HOURS	EXISTING RW	PROPOSED RW	EXISTING RW	PROPOSED RW	RWH SAVINGS (LIGHTING ONLY)	RWH SAVINGS (CONTROLS ONLY)	TOTAL RWH (COMBINED LIGHTING & CONTROLS)	HEIGHT A: 1-15 B: 16-34 C: 35-44 D: 45-49 E: 50-60	CEILING TYPE
1	CMC Exterior	Building Mount	CMCA	KLED-A	6		LED (1112W 8" RECESSED CAN 8" RECESSED CAN		EXCLUDED/NO CHANGE		12	12	5,110	5,110	0.072	0.072	367.82	367.82	0.00	0.00	0.00	A	
2	CMC Exterior	Building Mount	CMCA	LEDHWP	6		LED (110W 8" RECESSED CAN 8" RECESSED CAN		EXCLUDED/NO CHANGE		40	40	5,110	5,110	0.240	0.240	1,228.40	1,228.40	0.00	0.00	0.00	A	
3	CMC Exterior	Building Mount	CMCA	CFMRFL	2		CF QUAD (1142W FLOOD		(LED) NEW 18W 20 WATT DLC LED FLOOD		48	28	5,110	5,110	0.093	0.040	475.13	204.40	263.72	0.00	263.72	A	
4	CMC Exterior	Building Mount	CMCA	FTS	3		1L EXTRUDW W/EB 4" STRIP		(LED) 1L RVL T 18.5W 4FT BYPASS LED T8 (NACD SEPO-40-18-34-40)		31	11	5,110	5,110	0.093	0.032	475.23	160.97	314.27	0.00	314.27	A	
5	CMC Exterior	Building Mount	CMCA	KITFL	2		INCAN (1179W 8" RECESSED CAN		(LED) AND 1/2 0" RECESSED CAN (RETRUPTI LED 13.2W 4K (PWR RLS6W19940)		75	13	5,110	5,110	0.150	0.026	768.50	134.80	631.60	0.00	631.60	A	
6	CMC Exterior	Exterior Handrail	CMCA	FTACOVE	3		1L EXTRUDW W/EB 4" COVE		(LED) 1L RVL T 18.5W 4FT BYPASS LED T8 (NACD SEPO-40-18-34-40)		31	11	5,110	5,110	0.093	0.032	475.23	160.97	314.27	0.00	314.27	A	
7	CMC Exterior	Senior Center Parking	CMCA	WITSLBPT	6		1M4 (1179W GLOBE POST TOP		(LED) 1L SUPERIOR 69W MODULE LED DLC RETROFIT		215	45	5,110	5,110	1.290	0.270	6,591.00	1,379.70	5,212.30	0.00	5,212.30	A	
													35,770	2,150	0.711	10,273.30	5,636.25	6,738.05	0.00	6,738.05	6,738.05		

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	USE CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP /	EXISTING WATTAGE	EXISTING OPERATING HOURS	OCCUPANCY TYPE	PROPOSED HW	EXISTING HW	PROPOSED RWH	RWH SAVINGS (L/HR) (0.1)	RWH SAVINGS (L/HR) (0.1)	TOTAL RWH SAVING (L/HR) (0.1)	REMARK	CERAM TYPE	
1	Basement/evans Chosen Community Center	Office	BC1	NIPR5M	2		2L F30T30W U/LAMP W/ EB 2X2 PARABOLIC SURFACE MNT		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	24	2,340	0.116	0.048	276.12	112.32	163.80	0.00	163.80	A	LAY PN
2	Basement/evans Chosen Community Center	Office	BC1	BPT16	1		3L F30T30W W/ EB 2X4 TROFFER PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		96	32	2,340	0.096	0.025	224.64	72.71	150.93	0.00	150.93	A	LAY PN
3	Basement/evans Chosen Community Center	Stairs	BC	DW16	2		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		99	21	2,340	0.116	0.042	276.12	86.26	177.86	0.00	177.86	A	LAY PN
4	Basement/evans Chosen Community Center	Stairs	BC	DW16	2		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		99	21	2,340	0.116	0.042	276.12	86.26	177.86	0.00	177.86	A	LAY PN
5	Basement/evans Chosen Community Center	Storage	BC2	DW16	1		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	1,200	0.099	0.021	70.86	25.26	45.60	0.00	45.60	A	LAY PN
6	Basement/evans Chosen Community Center	Storage	BC2	DW16	1		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	1,200	0.099	0.021	70.86	25.26	45.60	0.00	45.60	A	LAY PN
7	Basement/evans Chosen Community Center	Storage	BC2	DW16	1		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	1,200	0.099	0.021	70.86	25.26	45.60	0.00	45.60	A	LAY PN
8	Basement/evans Chosen Community Center	Storage	BC2	DW16	1		2L F30T30W W/ EB 4" WRAP		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	1,200	0.099	0.021	70.86	25.26	45.60	0.00	45.60	A	LAY PN
9	Basement/evans Chosen Community Center	Admon	BC	NP02F332	2		2L F30T30W U/LAMP W/ EB 2X2 PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	24	2,340	0.116	0.046	276.12	112.32	163.80	0.00	163.80	A	LAY PN
10	Basement/evans Chosen Community Center	Front Desk	BC	CPB16	1		2L F30T30W W/ EB 2X4 TROFFER PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	2,340	0.099	0.021	136.86	46.16	88.52	0.00	88.52	A	LAY PN
11	Basement/evans Chosen Community Center	Front Desk	BC	NP02F332	1		2L F30T30W U/LAMP W/ EB 2X2 PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	24	2,340	0.099	0.024	136.86	56.16	81.00	0.00	81.00	A	LAY PN
12	Basement/evans Chosen Community Center	Front Desk	BC	K264P-4	6		CF QUAD (1) 26W R RECESSED CAN		(LED) AND HALO R RECESSED CAN RETROFIT LED 12.5W 46 (P/NB RLS60W18H46)		33	13	2,340	0.186	0.076	483.32	165.33	277.99	0.00	277.99	A	LAY PN
13	Basement/evans Chosen Community Center	Stairs	BC	K264P-4	1		CF QUAD (1) 26W R RECESSED CAN		(LED) AND HALO R RECESSED CAN RETROFIT LED 12.5W 46 (P/NB RLS60W18H46)		33	13	2,340	0.033	0.013	77.22	30.89	46.33	0.00	46.33	A	LAY PN
14	Basement/evans Chosen Community Center	Stairs	BC	CPB16	2		2L F30T30W W/ EB 2X4 TROFFER PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	2,340	0.116	0.042	276.12	96.26	177.86	0.00	177.86	A	LAY PN
15	Basement/evans Chosen Community Center	Hallway	BC	CPB16	2		2L F30T30W W/ EB 2X4 TROFFER PARABOLIC		MEDIA R/LVLT 10.5W 4FT BYPASS LED T8 (NAED SEPO-4-4-40) AND MODERN 3X2 3L TO PARABOLIC L/REF KIT (P/NB RPT22-317W)		59	21	2,340	0.116	0.042							

**Buena Community Center  
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24	Buena Vista Union Community Center	207	BC	SPR18	18	3x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	86	2,340	0.960	0.315	2,340.00	727.10	1,509.20	0.00	1,509.20	Y	A	LAV PN
25	Buena Vista Union Community Center	207	BC	K24AP-8	4	CF QUAD (11.5W 8" RECESSED CAN)	(LED) AND HANG F RECESSED CAN (RETROFIT LED 12.5W 48" (PM 16.5W/PM16.5W))	33	2,340	0.132	0.053	306.88	123.55	185.33	0.00	185.33	Y	A	LAV PN
26	Buena Vista Union Community Center	Teen Rm	BC	SPR18	8	3x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	86	2,340	0.976	0.189	1,347.84	442.26	805.58	0.00	805.58	Y	A	LAV PN
27	Buena Vista Union Community Center	Teen Rm	BC	NP2RFB32	2	2x F2T025W W/EB 2x4 PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40) AND MODERN 2x2 x 4 TR (PMSANTOSHALLOW KIT PM16RT22-317MM)	59	2,340	0.118	0.048	276.12	112.32	163.80	0.00	163.80	Y	A	LAV PN
28	Buena Vista Union Community Center	Teen Rm	BC	DW18	2	2x F2T025W W/EB 4" WRAP	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	59	2,340	0.118	0.042	276.12	98.28	177.84	0.00	177.84	Y	A	LAV PN
29	Buena Vista Union Community Center	Office	BC1	SPR18	2	3x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	86	2,340	0.182	0.080	448.28	147.42	301.86	0.00	301.86	Y	A	LAV PN
30	Buena Vista Union Community Center	Hallway	BC	CPR18	3	2x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	58	2,340	0.177	0.083	414.18	147.42	266.76	0.00	266.76	Y	A	LAV PN
31	Buena Vista Union Community Center	Hallway	BC	CPR18	1	2x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	59	2,340	0.059	0.021	138.04	48.14	89.90	0.00	89.90	Y	A	LAV PN
32	Buena Vista Union Community Center	Office	BC1	SPR18	3	3x F2T025W W/EB 2x4 TROFFER PARABOLIC	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	86	2,340	0.286	0.092	871.82	221.13	452.70	0.00	452.70	Y	A	LAV PN
33	Buena Vista Union Community Center	Mechanical	BC2	DW18	1	2x F2T025W W/EB 4" WRAP	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	59	1,200	0.058	0.021	79.88	25.20	46.68	0.00	46.68		A	LAV PN
34	Buena Vista Union Community Center	Storage	BC2	DW18	2	2x F2T025W W/EB 4" WRAP	(LED) RVL T 10.5W AFT BYPASS LED TR (NAKED SEP-CA-48-10.5-H-40)	59	1,200	0.116	0.042	141.88	58.40	91.28	0.00	91.28		A	LAV PN
										88,600	7,784	2,814	17,296.08	5,711.23	11,444.85	0.00	11,444.85		
										89,600									

Burns Community Ed.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST	PROPOSED BALLAST / LUMINAIRE	LAMP	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	QUANTITY	OCCUPANCY SCHEDULE TYPE	PROPOSED SCHED. HOURS	EXISTING KW	PROPOSED KW	EXISTING FOOT COUNTS	PROPOSED FOOT COUNTS	RWH SAVINGS (FOOT COUNTS ONLY)	RWH SAVINGS (FOOT COUNTS ONLY)	TOTAL RWH SAVINGS (COMBINED FOOT COUNTS AND CONTROLS)	HEIGHT A: 1-16 B: 17-24 C: 25-34 D: 35-44 E: 45-54 F: 55-64	CEILING TYPE
1	Burnswooden Orion Community Center 1561 sun mpeg Ave.	Exterior Pillars	BCA	W150LP	6		MH (1) 150W CYLINDER UP LIGHT		(LED) 110W GREEN CREATIVE 110W 421 0K-ND BYPASS (PAKED 18 SALSIN8627V87283)		150	19	4,271				1.145	0.111	4,868.37	474.02	4,394.34	0.00	4,394.34	A	
2	Burnswooden Orion Community Center 1561 sun mpeg Ave.	Exterior Pillars	BCA	W100WP	6		MH (1) 100W WALL PACK		(LED) NEW RAB 20 WATT QLED WALLPACK		128	20	4,271				0.786	0.126	3,278.74	512.46	2,767.28	0.00	2,767.28	A	
3	Burnswooden Orion Community Center 1561 sun mpeg Ave.	Exterior Pillars	BCA	LED20WP	3		LED (150W PICTURE WALL PACK		EXCLUDING CHANGE		20	20	4,271				0.089	0.000	256.27	256.25	0.00	0.00	0.00	A	
					15								13,812				1.968	0.291	8,408.34	1,242.72	7,165.62	0.00	7,165.62		



LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	RCM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / PROPOSED BALLAST / LUMINAIRE	LAMP /	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED HOURS	EXISTING RW	PROPOSED RW	RW1 SAVINGS (CONTROLS ONLY)	RW2 SAVINGS (CONTROLS ONLY)	TOTAL RW1 SAVINGS (CONTROLS)	CEILING TYPE	HEIGHT AT: 1'-15" B: 16'-34" C: 34'-44" E: 44'-8' 6" min.		
1	Municipal Service Center	Main Entrance	MC	LEDTRK	8		LED (1) RW SCREW IN TRACK	EXCLUDING CHANGE		8	8	3,734	3,734	0.084	0.084	238.98	238.98	0.00	0.00	Y	A	LAY IN
2	Municipal Service Center	Open Office	MC	CT8	28		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	3,734	3,734	1.534	0.546	5,727.96	2,628.76	3,888.19	Y	A	LAY IN	
3	Municipal Service Center	Offica	MC	CT8	2		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	3,734	1	0.116	0.042	440.81	283.78	315.15	Y	A	LAY IN	
4	Municipal Service Center	Offica	MC	CT8	2		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	3,734	1	0.116	0.042	440.81	283.78	315.15	Y	A	LAY IN	
5	Municipal Service Center	Offica	MC	CT8	2		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	3,734	1	0.116	0.042	440.81	283.78	315.15	Y	A	LAY IN	
6	Municipal Service Center	IT	MC	CF23TW	1		CF (1) 23W SCREW-IN RECES	(LED)IL GREEN CREATIVE W/ER 400K ENCLOSED FIX (NAED WAT08086 (87782))		23	9	3,734	3,734	0.023	0.008	85.88	33.81	82.29	Y	A	LAY IN	
7	Municipal Service Center	Janitor	MC2	CF23TW	1		CF (1) 23W SCREW-IN RECES	(LED)IL GREEN CREATIVE W/ER 400K ENCLOSED FIX (NAED WAT08086 (87782))		23	9	1,200	1,200	0.023	0.008	27.80	10.80	16.80	Y	A	LAY IN	
8	Municipal Service Center	Kidchewelle	MC	CF23PCC	1		CF TYN, (2) RW CEILING CANOPY	(LED)RL GREEN CREATIVE 5.9W 4K SPIN DIRECT OR BYPASS (Q23)2-pin CPL (NAED 5-SP-564MYB0023 (87823))		26	6	3,734	3,734	0.026	0.008	87.56	20.54	76.55	Y	A	LAY IN	
9	Municipal Service Center	Office	MC1	CT8	2		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	2,000	2,000	0.116	0.042	306.85	108.26	187.69	Y	A	LAY IN	
10	Municipal Service Center	Offica	MC1	CT8	2		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	2,000	2,000	0.116	0.042	306.85	108.26	187.69	Y	A	LAY IN	
11	Municipal Service Center	Restroom	MC3	CF23PCC	1		CF TYN, (2) RW CEILING CANOPY	(LED)RL GREEN CREATIVE 5.9W 4K SPIN DIRECT OR BYPASS (Q23)2-pin CPL (NAED 5-SP-564MYB0023 (87823))		26	6	2,375	2,375	0.026	0.008	81.75	13.86	48.89	Y	A	LAY IN	
12	Municipal Service Center	Restroom	MC3	HETIVAN	6		2L F17TB W/ER 2 VANTY	(LED)RL RMTL RW 2FT BYPASS LED T8 (NAED SEPG4-24-48-10.5-4-40)		33	18	2,375	2,375	0.185	0.060	391.86	180.00	201.86	Y	A	LAY IN	
13	Municipal Service Center	Restroom	MC3	LED2TB	2		LED (QTB 1RW DIRECT WIRE 4' LED FUTURE	EXCLUDING CHANGE		32	32	2,375	2,375	0.064	0.064	152.00	152.00	0.00	Y	A	LAY IN	
14	Municipal Service Center	Restroom	MC3	CF23TW	5		CF (1) 23W SCREW-IN RECES	(LED)IL GREEN CREATIVE W/ER 400K ENCLOSED FIX (NAED WAT08086 (87782))		23	9	2,375	2,375	0.116	0.045	273.13	108.86	168.25	Y	A	LAY IN	
15	Municipal Service Center	Restroom	MC3	LED1B5	8		LED (1TB 1RW DIRECT WIRE 4' STRIP	EXCLUDING CHANGE		18	18	2,375	2,375	0.128	0.128	384.00	384.00	0.00	Y	A	LAY IN	
16	Municipal Service Center	Restroom	MC3	HTB5	3		1L F17TB W/ER 2' STRIP	(LED)IL RMTL RW 2FT BYPASS LED T8 (NAED SEPG4-24-48-10.5-4-40)		20	8	2,375	2,375	0.064	0.064	142.50	57.00	85.50	Y	A	LAY IN	
17	Municipal Service Center	Restroom	MC3	CT8	3		2L F3XTB20W W/ER 2X4 TROFFER PRISMATIC	(LED)RL RMTL 10.9W 4FT BYPASS LED T8 (NAED SEPG4-48-10.5-4-40)		59	21	2,375	2,375	0.177	0.093	420.36	149.83	270.75	Y	A	LAY IN	
18	Municipal Service Center	Training	MC	LED2TB	8		LED (QTB 1RW DIRECT WIRE 4' LED FUTURE	EXCLUDING CHANGE		32	32	3,734	3,734	0.256	0							

24	Municipal Service Center	Water Dept Storage	MC	INDUCTI0N B	8				INDUCTI0N (1)150W OVAL HIGH BAY	(LED) 1(L SUPERIOR 80W MODUL LED DLC RETROFIT	181	45	3.734			3.734	1.288	0.260	4,808.36	1,544.24	3,466.16	0.00	3,466.16	A	OPEN TRUSS
25	Municipal Service Center	Water Dept Storage	MC	ASTBL	9				4(L F32TR02ZW W EB 8" INDUSTRIAL	(LED)AL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	112	42	3.734			3.734	0.560	0.210	2,091.64	784.14	1,306.80	0.00	1,306.80	A	OPEN TRUSS
26	Municipal Service Center	Water Dept Storage	MC	CF23TW	2				CF (1) 12W SCREW-IN KEYLESS	(LED)1(L GREEN CREATIVE WARM 4000K ENCLOSED FIX (NAED WAT000000 (87782)	23	9	3.734			3.734	0.046	0.016	171.76	62.21	104.55	0.00	104.55	A	OPEN TRUSS
27	Municipal Service Center	Parking Control	MC	CT8	8				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	3.734			3.734	0.531	0.166	1,882.75	705.73	1,277.03	0.00	1,277.03	A	HARD CAP
28	Municipal Service Center	Water Dept Bldg Restroom	MC	DNV78	1				2(L F32TR02ZW W EB 4" WRAP	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	89	21	3.734			3.734	0.099	0.021	239.31	78.41	141.88	0.00	141.88	A	HARD CAP
29	Municipal Service Center	Entrance	MC	CT8	1				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	3.734			3.734	0.059	0.021	220.31	78.41	141.88	0.00	141.88	A	HARD CAP
30	Municipal Service Center	Water Dept 2nd Floor	MC	CT8	29				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	3.734			3.734	1.357	0.463	5,007.84	1,603.52	3,283.52	0.00	3,283.52	A	HARD CAP
31	Municipal Service Center	Office	MC1	CT8	4				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	2.600	1	B1	2.080	0.236	0.064	813.50	174.72	395.20	43.58	438.08	Y	LAY IN
32	Municipal Service Center	Office	MC1	CT8	4				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	2.600	1	B1	2.080	0.236	0.064	813.50	174.72	395.20	43.58	438.08	Y	LAY IN
33	Municipal Service Center	Breakroom	MC	CT8	1				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	3.734			3.734	0.099	0.021	220.31	78.41	141.88	0.00	141.88	Y	LAY IN
34	Municipal Service Center	Copy	MC	CT8	1				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	3.734			3.734	0.059	0.021	220.31	78.41	141.88	0.00	141.88	Y	LAY IN
35	Municipal Service Center	Restrooms	MC3	MODULAN	3				INCAN. (1) 80W DRUM	(LED)1(L GREEN CREATIVE WARM 4000K ENCLOSED FIX (NAED WAT000000 (87782)	60	9	2.375			2.375	0.120	0.018	285.09	42.76	242.25	0.00	242.25	A	LAY IN
36	Municipal Service Center	Server Security	MC1	CT8	2				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	2.600			2.600	0.116	0.042	306.50	109.20	187.50	0.00	187.50	Y	LAY IN
37	Municipal Service Center	Restrooms	MC3	CT8	4				2(L F32TR02ZW W EB 2X4 TROOPER PRISMATIC	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	2.375			2.375	0.236	0.064	580.50	189.50	381.00	0.00	381.00	A	LAY IN
38	Municipal Service Center	Restrooms	MC3	CF28PCC	1				CF TWN. (2) 8W CEILING CANOPY	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	28	8	2.375			2.375	0.028	0.008	81.75	13.08	48.69	0.00	48.69	A	LAY IN
39	Municipal Service Center	Restrooms	MC3	DNV18	1				2(L F32TR02ZW W EB 4" WRAP	(LED)DL RWLT 10.9W AFT BYPASS LED T8 (NAED DEFO-48-10.5-4-40)	59	21	2.375			2.375	0.059	0.021	140.13	49.68	90.25	0.00	90.25	A	LAY IN
40	Municipal Service Center	Lounge	MC	CT8	4				2(L																



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Municipal Service Center Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	PROPOSED OPERATING HOURS	OCCUPANCY / USER TYPE	QUANTITY	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (LIGHTING ONLY)	RWH SAVINGS (CONTROLS ONLY)	TOTAL RWH COMBINED (LIGHTING & CONTROLS)	HEIGHT	CEILING TYPE
1	Municipal Service Center Exterior	Exterior Building Mount	MCA	LEDOPEN	22		LED (150W) FXTURE PENDANT		EXCLUDING CHANGE	20	20	4,015	4,015			0.440	0.440	1,768.80	1,768.80	0.00	0.00	0.00	A	
2	Municipal Service Center Exterior	Exterior Building Mount	MCA	LEDANWP	4		LED (140W) FXTURE WALL PACK		EXCLUDING CHANGE	40	40	4,015	4,015			0.160	0.160	842.40	842.40	0.00	0.00	0.00	A	
3	Municipal Service Center Exterior	Exterior Building Mount	MCA	W250FL	2		MK (1) 250W FLOOD	LED NEW DECOR NEW FLOOD 24" 3500KTY HOSE MOUNT PHOTO CONTROLS DCL PMB D2111E140605 UNV-73K-74S-E2-PC		205	205	4,015	4,015			0.590	0.120	2,336.85	481.80	1,857.05	0.00	1,857.05	A	
4	Municipal Service Center Exterior	Exterior Building Mount	MCA	W175WPP	1		MK (1) 175W WALL PACK	LED NEW MAXITITE LED WALLMKS SMALL WALL PACK 50W 4800 LM 5000K BRONZE UNV DCL-W175W BLUTTON PHOTOCELL (PMB WFS081508PC1406061)		215	215	4,015	4,015			0.215	0.050	863.25	200.75	662.48	0.00	662.48	A	
5	Municipal Service Center Exterior	Exterior Building Mount	MCA	INDUCTVSCC	9		INDUCTION (1170W) ROUND CEILING CANOPY	LED NEW DECOR 40W SURFACE CANOPY 4K BRONZE (PMB D33A-LED-40-40-UNV-WH)		79	79	4,015	4,015			0.711	0.360	2,854.87	1,445.40	1,409.27	0.00	1,409.27	A	
					35							20,075	2,116			1.130	0.360	8,485.24	4,536.05	3,949.19	0.00	3,949.19		

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FS #1  
Room by Room Audit

24	Fire Station #1	2nd Floor Corridor	F	K264P4-6	3		CF QUARK (1) 20W 4" RECESSED CAN	(LED) AND HALO 6" RECESSED CAN RETROFIT LED 13.2W 4000K (PM RL500W18940)	33	4.816			4.816	0.099	0.840	478.96	192.79	286.19	0.00	286.19	Y	A	HAND CAP
25	Fire Station #1	Stairs	F	KPM120-4	2		INCAN (1) 50W T20 4" RECESSED CAN	(LED) 1L GREEN CREATIVE LUDOGONM27 (N4LD) E. SPOCCOM27 (10812)	50	4.816			4.816	0.100	0.813	481.80	62.63	419.17	0.00	419.17	Y	A	HAND CAP
26	Fire Station #1	Atic	F1	CF23TW	1		CF (1) 23W SCHEM-N4VZ LBS	(LED) 1L GREEN CREATIVE LED A18 EX LAMP 17W 4000K 1180 LUM (N4LD) 12A SC200840 (10177)	23	4.816			4.816	0.023	0.812	118.81	57.82	53.00	0.00	53.00		A	HAND CAP
27	Fire Station #1	2nd Floor Corridor	F2	N417	38		2L F175W WB 2X2 PRISMATIC	(LED) 2L RVL 16.5W 4FT BYPASS LED T8 (N4LD) SPC4-24-4 (N4-40)	33	2.190			2.190	1.666	0.312	2,312.64	1,121.28	1,191.36	0.00	1,191.36	Y	A	HAND CAP
28	Fire Station #1	2nd Floor Corridor	F2	CF23TW	9		CF (1) 23W SCHEM-N4VZ LBS	(LED) 1L GREEN CREATIVE LED A18 EX LAMP 17W 4000K 1180 LUM (N4LD) 12A SC200840 (10177)	23	2.190			2.190	0.184	0.088	492.86	210.24	182.72	0.00	182.72	Y	A	HAND CAP
29	Fire Station #1	2nd Floor Corridor	F2	ET8	11		2L 12X18W20W WB 4" STMP	(LED) 2L RVL 16.5W 4FT BYPASS LED T8 (N4LD) SPC4-48 (N4-40)	55	2.190			2.190	0.606	0.231	1,324.95	605.89	819.06	0.00	819.06	Y	A	HAND CAP
30	Fire Station #1	2nd Floor Corridor	F2	M218L	1		2L F175W WB 2" STMP	(LED) 2L RVL 16.5W 4FT BYPASS LED T8 (N4LD) SPC4-24-4 (N4-40)	33	2.190			2.190	0.633	0.818	72.27	35.64	37.23	0.00	37.23	Y	A	HAND CAP
31	Fire Station #1	2nd Floor Corridor	F2	CT8	12		2L 12X18W20W WB 24" TROFFER PRISMATIC	(LED) 2L RVL 16.5W 4FT BYPASS LED T8 (N4LD) SPC4-48 (N4-40)	55	2.190			2.190	0.686	0.250	1,445.40	651.86	893.52	0.00	893.52	Y	A	HAND CAP
32	Fire Station #1	Electrical Under Stairs	F1	ET8	2		2L 12X18W20W WB 4" STMP	(LED) 2L RVL 16.5W 4FT BYPASS LED T8 (N4LD) SPC4-48 (N4-40)	55	4.816			4.816	0.110	0.843	529.86	202.36	327.52	0.00	327.52		A	HAND CAP
										130.524			130.524	12.531	4.842	52,890.05	20,025.18	32,864.87	0.00	32,864.87			

**FS #1 Ext.**

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INT.	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	SCM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / PROPOSED	BALLAST / LUMINAIRE	LAMP	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED HOURS	EXISTING RW	PROPOSED RW	EXISTING RHV	PROPOSED RHV	RWV SAVINGS (CONTROLS ONLY)	RWV SAVINGS (CONTROLS ONLY)	TOTAL RWV SAVINGS (EXEMPTED CONTROLS)	HEIGHT A: 1-15 B: 16-34 C: 35-44 D: 45-48 E: 49-58	CEILING TYPE	
1	Fire Station A4	Laundry	F	DWTS	4		2L F32T032W W/ EB 4' WRAP		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		59	21	4,818	4,818	0.238	0.044	1,137.85	404.71	732.34	0.00	732.34	A	HARD CAP	
2	Fire Station A4	Laundry	F	HL	1		INCAN (1) 60W RETLESS		(LED)HL GREEN CREATIVE WATSON 4000K ENCLOSED FTX (NAED WATSON4000 (87782))		60	9	4,818	4,818	0.060	0.000	295.06	41.36	245.72	0.00	245.72	A	HARD CAP	
3	Fire Station A4	Garage	F1	AWTEL	16		4L F32T032W W/ EB 8' WRAP		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		112	42	4,818	4,818	1.120	0.420	5,386.16	2,023.56	3,372.60	0.00	3,372.60	A	HARD CAP	
4	Fire Station A4	Garage	F1	CF212PWP	1		CF: TWK (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT 48-10.3-4-40		26	15	4,818	4,818	0.028	0.015	134.90	72.27	62.63	0.00	62.63	A	HARD CAP	
5	Fire Station A4	Garage	F1	LED20WP	1		LED (1)20W FEATURE WALL PACK		EXCLUDING CHANGE		30	20	4,818	4,818	0.020	0.000	86.30	98.36	0.00	0.00	0.00	A	HARD CAP	
6	Fire Station A4	Living Quarters	F4	CT8	11		2L F32T032W W/ EB 2'X4 TROFFER PRISMATIC		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		59	21	3,066	3,066	0.649	0.231	1,889.83	788.25	1,261.58	0.00	1,261.58	Y	A	HARD CAP
7	Fire Station A4	Living Quarters	F4	CF212PWP	2		CF: TWK (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT 48-10.3-4-40		26	15	3,066	3,066	0.059	0.030	171.70	91.56	78.72	0.00	78.72	Y	A	HARD CAP
8	Fire Station A4	Living Quarters	F4	DWTS	3		2L F32T032W W/ EB 4' WRAP		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		59	21	3,066	3,066	0.177	0.063	542.88	193.16	348.62	0.00	348.62	Y	A	HARD CAP
9	Fire Station A4	Living Quarters	F4	80	1		INCAN (1) 60W RETLESS		(LED)HL GREEN CREATIVE WATSON 4000K ENCLOSED FTX (NAED WATSON4000 (87782))		60	9	3,066	3,066	0.060	0.008	183.96	27.59	156.37	0.00	156.37	Y	A	HARD CAP
10	Fire Station A4	Living Quarters	F4	AWTEL	1		4L F32T032W W/ EB 8' WRAP		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		112	42	3,066	3,066	0.112	0.042	343.39	128.77	214.62	0.00	214.62	Y	A	HARD CAP
11	Fire Station A4	Living Quarters	F4	KCF23TW-4	2		CF (1) 23W SCREW-IN 6" RECESSED CAN		(LED)HL GREEN CREATIVE LED AIR ENLAMP 12W 4000K T18 LAMP (NAED 12AT18G0M840 (16177))		23	12	3,066	3,066	0.046	0.024	141.04	73.58	67.45	0.00	67.45	Y	A	HARD CAP
12	Fire Station A4	Living Quarters	F4	BT8	7		3L F32T032W W/ EB 2'X4 TROFFER		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		67	32	3,066	3,066	0.609	0.221	1,887.19	678.65	1,191.14	0.00	1,191.14	Y	A	HARD CAP
13	Fire Station A4	Exterior	F3	INDUCT/ACC	4		INDUCTION (1)20W ROUND CEILING CANOPY		(LED) NEW DECO 20W SURFACE CANOPY SK BRONZE (PMF D504-LED-48-60-40V-82-2)		79	40	4,745	4,745	0.316	0.160	1,699.42	759.20	740.22	0.00	740.22		A	
14	Fire Station A4	Exterior	F3	LED08FL	1		LED (1)20W FEATURE FLOOD		EXCLUDING CHANGE		20	20	4,745	4,745	0.020	0.020	94.90	94.90	0.00	0.00	0.00	A		
15	Fire Station A4	Exterior	F3	CF212PWP	1		CF: TWK (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT 48-10.3-4-40		26	15	4,745	4,745	0.028	0.016	132.86	71.16	61.69	0.00	61.69	A		
16	Fire Station A4	Exterior	F3	WDPFL	4		4HL (1)20W FLOOD		(LED) NEW DECO 20W FLOOD SK PHOTO CELL (PMF DECO D211-LED-55-55-40V-PC)		85	20	4,745	4,745	0.330	0.080	1,833.16	378.80	1,423.56	0.00	1,423.56	A		
17	Fire Station A4	Exterior	F3	LED20CC	1		LED (1)20W FEATURE CEILING CANOPY		EXCLUDING CHANGE		20	20	4,745	4,745	0.020	0.020	94.90	94.90	0.00	0.00	0.00	A		
18	Fire Station A4	Exterior	F3	CF23LJ	2		CF (1) 23W SCREW-IN JELLY JAR		(LED)HL GREEN CREATIVE LED AIR ENLAMP 12W 4000K T18 LAMP (NAED 12AT18G0M840 (16177))		23	12	4,745	4,745	0.046	0.024	219.27	113.86	104.29	0.00	104.29	A		
18	Fire Station A4	Exterior	F3	CF2FL	1		CF QUAD (1) 42W FLOOD		(LED) NEW RAB 20 WATT LED DLC FLOOD		48	20	4,745	4,745	0.046	0.020	218.27	94.90	123.37	0.00	123.37	A		
20	Fire Station A4	Exterior	F3	DPFL	2		INCAN (1) 20W FLOOD		(LED)HL GREEN CREATIVE 17W PAR38 4K LAMP 120V277V (NAED 17PAR38-4000-140277V (16164))		75	17	4,745	4,745	0.150	0.034	711.75	181.33	566.42	0.00	566.42	A		
21	Fire Station A4	Sign	F3	F18	2		1L F32T032W W/ EB 4' STRIP		(LED)HL RMT 10.9W 4FT BYPASS LED T8 (NAED SEPO-48-10.3-4-40)		31	11	4,745	4,745	0.082	0.021	294.19	99.65	194.55	0.00	194.55	A		

FS #5  
Room by Room Audit

LINE	FLOOR BUILDING AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WALLS	PROPOSED WALLS	EXISTING CREATING HOURS	OCCUPANCY TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (EQUIV. ONLY)	RWH SAVINGS (EQUIV. ONLY)	TOTAL RWH EQUIV. LIGHTING CONTROLS	HERMETIC	CEILING TYPE
1	Fire Station #5	Apparatus Room	F1	ASTL	11		4L FXT202W W/EB 8 INDUSTRIAL	LEDHL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	LEDHL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	112	42	4,818			1,232	0.482	5,856.78	2,225.82	3,709.86	0.00	3,709.86	A	HARD CAP
2	Fire Station #5	Apparatus Room	F1	275CC	1		INCAN (2) 25W CEILING CANOPY	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	150	18	4,818			0.150	0.016	722.70	84.72	835.98	0.00	835.98	A	HARD CAP
3	Fire Station #5	Living Quarters	F	CTB	18		2L FXT202W W/EB 8A TROOPER PRISMATIC	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	58	21	4,818			1.121	0.395	5,405.96	1,922.36	3,478.60	0.00	3,478.60	A	HARD CAP
4	Fire Station #5	Living Quarters	F	N217	1		2L F1718 W/EB 323 PRISMATIC	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	33	18	4,818			0.032	0.016	153.96	77.96	81.91	0.00	81.91	A	HARD CAP
5	Fire Station #5	Living Quarters	F	DW18	15		2L FXT202W W/EB 8 WRUP	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	58	21	4,818			0.885	0.315	4,283.93	1,517.87	2,746.26	0.00	2,746.26	A	HARD CAP
6	Fire Station #5	Living Quarters	F	275CC	1		INCAN (2) 25W CEILING CANOPY	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	150	18	4,818			0.150	0.016	722.70	84.72	835.98	0.00	835.98	A	HARD CAP
7	Fire Station #5	Living Quarters	F	CF213PWP	2		CF, TWIN (2) 15W WALL PACK	LEDXL NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT (NAMED SEP04-48-10-54-40)	LEDXL NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT (NAMED SEP04-48-10-54-40)	28	15	4,818			0.056	0.020	289.81	144.54	123.27	0.00	123.27	A	HARD CAP
8	Fire Station #5	Living Quarters	F	KCF23TW-4	2		CF (1) 25W SCREW-IN F RECESSED CAN	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	23	13	4,818			0.046	0.024	221.63	115.83	106.00	0.00	106.00	A	HARD CAP
9	Fire Station #5	Living Quarters	F	N217	2		2L F1718 W/EB 323 PRISMATIC	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	LEDXL RWT 15 SW 4FT BYPASS LED T8 (NAMED SEP04-48-10-54-40)	33	18	4,818			0.066	0.022	317.99	154.16	163.81	0.00	163.81	A	HARD CAP
10	Fire Station #5	Estator	F3	H100L	3		INCAN (1) 150W A LINE FLOOD	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	150	20	4,745			0.300	0.040	1,420.50	189.80	1,233.70	0.00	1,233.70	A	
11	Fire Station #5	Estator	F3	W70WP	2		MH (1) 70W WALL PACK	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	95	20	4,745			0.180	0.040	581.55	189.80	711.75	0.00	711.75	A	
12	Fire Station #5	Estator	F3	W100L	2		MH (1) 100W FLOOD	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	LEDXL NEW DECO 20W FLOOD 5K PHOTO CELL (NAMED SEP04-48-10-54-40)	128	20	4,745			0.258	0.040	1,214.72	189.80	1,024.92	0.00	1,024.92	A	
13	Fire Station #5	Estator	F3	275CC	1		INCAN (2) 25W CEILING CANOPY	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	LEDXL GREEN CREATIVE 8'X10' 4000K ENCLOSED (FXT, NAMED 8'X10' 4000K (87763))	150	18	4,745			0.150	0.016	711.75	84.72	826.47	0.00	826.47	A	
14	Fire Station #5	Estator	F3	W100WP	1		MH (1) 100W WALL PACK	LEDXL NEW MAXUTE LED WALLMAX SMALL WALL PACK 50W 4000K LUM 5000K BRONZE UNV RLC W/20V/ BUTTOM PHOTOCELL (NAMED SEP04-48-10-54-40)	LEDXL NEW MAXUTE LED WALLMAX SMALL WALL PACK 50W 4000K LUM 5000K BRONZE UNV RLC W/20V/ BUTTOM PHOTOCELL (NAMED SEP04-48-10-54-40)	190	50	4,745			0.190	0.050	961.50	237.25	864.30	0.00	864.30	A	
15	Fire Station #5	Estator	F3	LEDAMP	2		LED (1) 100W FLOOD WALL PACK	EXCLUDING CHANGE	EXCLUDING CHANGE	48	40	4,745			0.060	0.060	379.80	379.80	0.00	0.00	0.00	A	
											71,832	4,892	1,582	23,543.17	7,622.51	15,944.62	0.00	15,944.62	0.00	15,944.62	0.00	15,944.62	



FS #2  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	QUANTITY	OCCUPANCY BASED ROOM TYPE	PROPOSED HOURS	EXISTING HW	PROPOSED HW	EXISTING RWH	PROPOSED RWH	RWH BALLASTING (ONLY)	RWH BALLASTING (CONTROLS ONLY)	TOTAL RWH BALLASTING (CONTROLS AND BALLASTING)	HEIGHT B1: 14-14 B2: 24-34 B3: 44-49 B4: 49-54	CEILING TYPE
1	Fire Station #2	Appetina	F2G	A18	14		4L F2XT80ZW W/ B3 24X TROOPER PRISMATIC		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	112	42	4,818				1,566	0.040	7,504.62	2,832.36	4,721.64	0.00	4,721.64	A	HARD CAP
2	Fire Station #2	Appetina	F2G	A18L	2		4L F2XT80ZW W/ B3 24X TROOPER INDUSTRIAL		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	112	42	4,818				0.224	0.004	1,679.22	464.71	674.52	0.00	674.52	A	HARD CAP
3	Fire Station #2	Appetina	F2G	C21DUPWP	2		CF TYPN, Q1 12W WALL PACK		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	28	15	4,818				0.006	0.006	268.81	144.54	128.27	0.00	128.27	A	HARD CAP
4	Fire Station #2	Living Quarters	F2G	C18	24		2L F2XT80ZW W/ B3 24X TROOPER PRISMATIC		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	56	21	4,818				1.416	0.04	6,822.26	2,428.27	4,394.05	0.00	4,394.05	A	HARD CAP
5	Fire Station #2	Living Quarters	F2G	E18S	1		2L F2XT80ZW W/ B3 24X TROOPER PRISMATIC		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	56	21	4,818				0.006	0.021	284.26	101.16	183.08	0.00	183.08	A	HARD CAP
6	Fire Station #2	Living Quarters	F2G	KCF23TW-4	2		CF (1)12W SCREEN-W/ RECESSED CAN		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	23	12	4,818				0.046	0.024	221.83	115.63	106.00	0.00	106.00	A	HARD CAP
7	Fire Station #2	Living Quarters	F2G	H0	1		INCAN (1) 80W ACELESS		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	60	9	4,818				0.006	0.009	269.66	43.36	246.72	0.00	246.72	A	HARD CAP
8	Fire Station #2	Estator	F2E	B0WP	2		INCAN (1) 60W WALL PACK		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	60	8	4,745				0.120	0.016	568.42	86.41	482.06	0.00	482.06	A	
9	Fire Station #2	Estator	F2E	W109L	3		ML (1) 100W FLOOD		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	128	20	4,745				0.364	0.060	1,822.66	284.70	1,537.96	0.00	1,537.96	A	
10	Fire Station #2	Estator	F2E	I791L	2		INCAN (1) 75W FLOOD		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	75	17	4,745				0.166	0.04	711.75	181.33	530.42	0.00	530.42	A	
11	Fire Station #2	Syn	F2E	F18	2		1L F2XT80ZW W/ B3 24X TROOPER		(LED)HL RLVLT 10.5W AFT BYPASS LED T8 RMED DEPGA 48-10.54440	31	11	4,745				0.002	0.021	284.18	90.66	194.56	0.00	194.56	A	
											50,708	4,145	1,300	19,818.34	6,701.77	13,216.58	0.00	13,216.58						

FS #3  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	OCCUPANCY / TYPE	PROPOSED HOUSING	EXISTING RW	PROPOSED RW	EXISTING KWH	PROPOSED KWH	PROPOSED KWH SAVINGS (ONLY)	KWH SAVINGS (COMBINED AND CONTROLS)	TOTAL KWH (COMBINED AND CONTROLS)	USGWB AT 1-15 BT 16-24 CT 25-34 ET 35-44 FT 45-54 GT 55-64 HT 65-74 IT 75-84 JT 85-94 KT 95-104	CEILING TYPE	
1	Fire Station #3	Apparatus	F1	ASTEL	19		4L F32TMDZ W/ER 4 INDUSTRIAL	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	112	42	4.818		4.818	1.120	0.400	5,386.16	2,823.56	3,372.60	0.00	3,372.60	A	HARD CAP
2	Fire Station #3	Apparatus	F1	CP213PWP	3		CF TWM (2) 13W WALL PACK	(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT	28	15	4.818		4.818	0.064	0.045	464.71	218.81	187.90	0.00	187.90	A	HARD CAP
3	Fire Station #3	Apparatus	F1	INDUCTOCC	3		INDUCTION (1) 10W ROUND CEILING CANOPY	(LED) NEW DECO 40W SURFACE CANOPY BR BRONZE (PMD DSH-LED-40-50-UN-42-03)	78	40	4.818		4.818	0.237	0.126	1,141.87	578.16	663.71	0.00	663.71	A	HARD CAP
4	Fire Station #3	Laundry	F	ASTEL	2		4L F32TMDZ W/ER 4 INDUSTRIAL	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	112	42	4.818		4.818	0.224	0.084	1,879.23	464.71	874.52	0.00	874.52	A	HARD CAP
5	Fire Station #3	Laundry	F	ISO	1		INCAL (1) 80W KEYLESS	(LED)HL GREEN CREATIVE BA 80W 400K ENCLOSED PXL (PMD M10MB940 R7783)	80	9	4.818		4.818	0.080	0.009	280.68	43.34	247.72	0.00	247.72	A	HARD CAP
6	Fire Station #3	Living Quarters	F	AWTE	1		4L F32TMDZ W/ER 4 WRAP	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	112	42	4.818		4.818	0.112	0.042	538.82	202.34	337.26	0.00	337.26	A	HARD CAP
7	Fire Station #3	Living Quarters	F	CP213TWCC	2		CF (2) 13W SCREEN-IN CEILING CANOPY	(LED)HL GREEN CREATIVE BA 100W 400K ENCLOSED PXL (PMD M10MB940 R7783)	28	18	4.818		4.818	0.022	0.006	250.54	173.45	77.09	0.00	77.09	A	HARD CAP
8	Fire Station #3	Living Quarters	F	DWTE	3		2L F32TMDZ W/ER 4 WRAP	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	58	21	4.818		4.818	0.177	0.082	832.78	303.53	540.25	0.00	540.25	A	HARD CAP
9	Fire Station #3	Living Quarters	F	CF8	21		2L F32TMDZ W/ER 204 TROOPER PRISMATIC	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	58	21	4.818		4.818	1.298	0.441	5,860.50	2,124.74	3,844.76	0.00	3,844.76	A	HARD CAP
10	Fire Station #3	Living Quarters	F	ISO	3		INCAL (1) 80W KEYLESS	(LED)HL GREEN CREATIVE BA 80W 400K ENCLOSED PXL (PMD M10MB940 R7783)	80	9	4.818		4.818	0.120	0.016	578.16	86.72	491.44	0.00	491.44	A	HARD CAP
11	Fire Station #3	Living Quarters	F	ETES	1		2L F32TMDZ W/ER 4 STRIP	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	58	21	4.818		4.818	0.058	0.021	264.26	101.18	163.08	0.00	163.08	A	HARD CAP
12	Fire Station #3	Living Quarters	F	CF213J	2		CF (1) 20W SCREEN-IN JELLY JAR	(LED)HL GREEN CREATIVE LED A18 LAMP 12W 400K 1180 LM (PMD 12A18G40M940 R19777)	23	12	4.818		4.818	0.046	0.024	271.63	118.63	100.00	0.00	100.00	A	HARD CAP
13	Fire Station #3	Living Quarters	F	CP213TWHS	4		CF (1) 13W SCREEN-IN WALL SCONCE	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	13	42	4.818		4.818	0.052	0.168	250.54	898.42	650.88	0.00	650.88	A	HARD CAP
14	Fire Station #3	Estimator	F3	WYDPL	1		MH (1) 10W FLOOD	(LED) NEW DECO 20W FLOOD BR PHOTO CELL (PMD DECO DSH-LED-30-20-UN-PC)	95	20	4.745		4.745	0.095	0.020	450.76	94.90	355.86	0.00	355.86	A	
15	Fire Station #3	Estimator	F3	WOLJ	1		INCAL (1) 80W JELLY JAR	(LED)HL GREEN CREATIVE BA 80W 400K ENCLOSED PXL (PMD M10MB940 R7783)	80	9	4.745		4.745	0.080	0.009	280.68	42.71	242.00	0.00	242.00	A	
16	Fire Station #3	Estimator	F3	WYDSEL	2		MH (1) 10W FLOOD	(LED) NEW DECO 20W FLOOD BR PHOTO CELL (PMD DECO DSH-LED-30-20-UN-PC)	138	20	4.745		4.745	0.256	0.046	1,214.72	188.80	1,024.92	0.00	1,024.92	A	
17	Fire Station #3	Estimator	F3	FT8	2		1L F32TMDZ W/ER 4 STRIP	(LED)HL RVT 18.5W AFT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	31	11	4.745		4.745	0.082	0.021	294.18	80.85	194.55	0.00	194.55	A	
18	Fire Station #3	Estimator	F3	213TWCC	1		CF (2) 13W SCREEN-IN CEILING CANOPY	(LED)HL GREEN CREATIVE BA 100W 400K ENCLOSED PXL (PMD M10MB940 R7783)	28	18	4.745		4.745	0.026	0.018	123.37	85.41	37.96	0.00	37.96	A	
19	Fire Station #3	Estimator	F3	LEDUPL	3		LED (1) 10W FUTURE FLOOD	EXCLUDING CHANGE	40	40	4.745		4.745	0.120	0.120	589.40	589.40	0.00	0.00	0.00	A	
											81.104	4.201	1.718	20,192.21	2,205.50	11,529.71	0.00	11,529.71				

## FS #7

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	PHOTOGRAPH	EXISTING WATTAGE	PHOTOGRAPH WATTAGE	EXISTING DEGRATING HOURS	OCCUPANCY TYPE	PHOTOGRAPH HOURS	EXISTING RW	PROPOSED RW	EXISTING RW	PROPOSED RW	RW SAVINGS (ONLY)	RW SAVINGS (COMBINED)	HEIGHT	CEILING TYPE
1	Fire Station #7	Living Quarters	F7	CTE	4		2L FXT622W W/ E3 2X4 TROOPER PRISMATIC	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	8.700	98	21	8.700	0.235	0.004	0.004	2,007.26	735.94	1,331.52	0.00	1,331.52	A	HARD CAP
2	Fire Station #7	Living Quarters	F7	DWTE	6		2L FXT622W W/ E3 2X4 TROOPER PRISMATIC	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	8.700	98	21	8.700	0.354	0.136	0.136	3,101.04	1,103.76	1,997.28	0.00	1,997.28	A	HARD CAP
3	Fire Station #7	Living Quarters	F7	CTE	1		2L FXT622W W/ E3 2X4 TROOPER PRISMATIC	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	8.700	98	21	8.700	0.006	0.027	0.027	518.84	183.96	332.88	0.00	332.88	A	HARD CAP
4	Fire Station #7	Living Quarters	F7	CF17TWVA N	2		CF (1) 13W SCREW-IN VARI	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	8.700	52	24	8.700	0.104	0.046	0.046	911.64	430.56	480.56	0.00	480.56	A	HARD CAP
5	Fire Station #7	Living Quarters	F7	PROEC	1		G21 HAL 160W DE (1' LENGTH) DECORATIVE	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	8.700	150	17	8.700	0.100	0.017	0.017	1,314.00	148.92	1,165.08	0.00	1,165.08	A	HARD CAP
6	Fire Station #7	Apparatus	F1	ASTE	9		4L FXT622W W/ E3 8' INDUSTRIAL	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	4.818	112	42	4.818	0.006	0.330	0.330	4,318.92	1,818.85	2,500.08	0.00	2,500.08	A	HARD CAP
7	Fire Station #7	Apparatus	F1	ETE	1		2L FXT622W W/ E3 8' STOP	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	MEDIA RAIL 10.5W 4FT BYPASS LED T8 (RAED SEP04 48-10.5-4-40)	4.818	59	21	4.818	0.020	0.021	0.021	284.26	101.15	183.08	0.00	183.08	A	HARD CAP
8	Fire Station #7	Exterior	F3	CF13PWP	6		CF TWM (2) 13W WALL PACK	(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT	(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT	4.745	28	15	4.745	0.140	0.075	0.075	664.20	305.88	308.43	0.00	308.43	A	
9	Fire Station #7	Exterior	F3	2T5FL	1		INCAN (2) 75W FLOOD	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	4.745	150	34	4.745	0.100	0.004	0.004	711.75	161.33	550.42	0.00	550.42	A	
10	Fire Station #7	Exterior	F3	CF23L	1		CF (1) 23W SCREW-IN KELLY JAR	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	4.745	23	12	4.745	0.025	0.012	0.012	109.14	96.94	93.20	0.00	93.20	A	
11	Fire Station #7	Exterior	F3	CF23L	3		CF (1) 23W SCREW-IN FLOOD	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	MEDIA GREEN CREATIVE (W G25 ZRK 120V DIM ENERGY (RAED 9005080407 (8778)	4.745	23	17	4.745	0.008	0.031	0.031	327.41	242.06	86.41	0.00	86.41	A	
					33					72.41H	52.41H		2.240	0.025	5.128.13	6.194.92							

Woodbury Park  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	PROPOSED OPERATING HOURS	OCCUPANCY PEAK PERIOD TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING KWH	PROPOSED KWH	KWH SAVINGS (LIGHTING ONLY)	KWH SAVINGS (CONTROLS ONLY)	TOTAL KWH SAVINGS (LIGHTING AND CONTROLS)	CEILING TYPE	UNIFORMITY A1 1-15 A2 16-24 A3 25-34 A4 35-44 A5 45-54 A6 55-64 A7 65-74 A8 75-84 A9 85-94 A10 95-100
1	Woodbury Park	Restrooms	WP	WTDWP	4		MH (1) 70W WALL PACK		LED NEW DECO 20W PORCH LIGHT 18K BRONZE PHOTO CELL (PMI D1416-LED-20-50-1W-42-PC) 48-10-5-4-40	65	20	4,360		4,360	0.360	0.090	1,564.40	350.40	1,314.00	0.00	1,314.00	A	HARD CAP
2	Woodbury Park	Restrooms	WP	DWTR	1		2L F27T820Z W/ER 4 VAPOR TIGHT		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	59	21	4,360		4,360	0.059	0.021	258.42	81.96	186.46	0.00	186.46	A	HARD CAP
3	Woodbury Park	Pool Pump	WP	DWTR	5		2L F27T820Z W/ER 4 VAPOR TIGHT		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	69	21	4,360		4,360	0.265	0.105	1,322.10	493.90	832.20	0.00	832.20	A	HARD CAP
4	Woodbury Park	Pool Pump	WP	HZTES	1		2L F17T8 W/ER 2 STIRP		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	33	16	4,360		4,360	0.033	0.016	144.54	70.08	74.46	0.00	74.46	A	HARD CAP
5	Woodbury Park	Pool Pump	WP	ET6	2		2L F27T820Z W/ER 4 STIRP		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	69	21	4,360		4,360	0.110	0.042	518.84	193.96	324.88	0.00	324.88	A	HARD CAP
6	Woodbury Park	Pool Pump	WP	C23TWCC	3		CF (1) 20W SCREEN-IN CEILING CAMOPY		LEDJXL GREEN CREATIVE LED A19 8W LAMP 70W 4500K (180 LUM LUM (RATED) 13A1904000000 (18177)	23	12	4,360		4,360	0.009	0.004	392.22	107.64	144.54	0.00	144.54	A	HARD CAP
7	Woodbury Park	Restrooms	WP	DWTR	4		2L F27T820Z W/ER 4 VAPOR TIGHT		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	59	21	4,360		4,360	0.236	0.094	1,033.68	397.92	635.76	0.00	635.76	A	HARD CAP
8	Woodbury Park	Restrooms	WP	HZTES	1		2L F17T8 W/ER 2 STIRP		LEDJXL RMT 10.5W 4FT BYPASS LED T8 (RATED SEFOUR 48-10-5-4-40)	33	16	4,360		4,360	0.033	0.016	144.54	70.08	74.46	0.00	74.46	A	HARD CAP
														36,840	1,223	0.400	8,368.74	1,752.00	3,616.74	0.00	3,616.74		
														36,840							3,616.74		

Woodbury Ext.  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	QUANTITY	OCCUPANCY CATEGORY	PROPOSED HOURS	EXISTING RW	PROPOSED RW	EXISTING RW	PROPOSED RW	RW BANKS (EXISTING ONLY)	RW BANKS (PROPOSED ONLY)	TOTAL RW BANKS (COMBINED)	CEILING TYPE	HEIGHT
1	Woodbury Park Exterior	Building Mount	WP1	W70WP	3		MH (1) 170W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT SK BRONZE PHOTO CELL (PMB DA154-LED-30-50-14W-42-PC)	95	20	4,745			4,745	0.285	0.046	1,302.33	284.75	1,587.08	0.00	1,587.08	A	11-15
2	Woodbury Park Exterior	Building Mount	WP1	LED4WP	1		LED (1) 140W FXTURE WALL PACK		EXCLUDED/NO CHANGE	40	40	4,745			4,745	0.040	0.040	189.80	189.80	0.00	0.00	0.00	A	11-15
3	Woodbury Park Exterior	Pole	WP2	W100SHADE PL	6		MH (1) 100W SHRODOX POLE		(LED) NEW DECO 30W LED AREA FLOOD 5600K TYPE 3 SLIP FITTER PHOTO CELL (PMB D032-LED-30-50-14W-17-34-42-PC)	1,080	300	1,460			1,460	0.440	1.000	8,480.00	2,826.00	8,832.00	0.00	8,832.00	D	11-15
4	Woodbury Park Exterior	Pole	WP2	W100SH PL	4		MH (1) 100W POLE FLOOD		(LED) NEW 30W LED BRIDGE FLOOD AUTOTUNE MHT SK (PMB D031-LED-30-50-14W-17-34-42-PC)	1,080	300	1,460			1,460	4.320	1.200	8,307.20	1,752.00	4,555.20	0.00	4,555.20	D	11-15
5	Woodbury Park Exterior	Pole	WP2	W250PL	3		MH (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W SK 18 BRONZE SLIP FITTER (PMB D011-LED-60-50-14W-17-34-42-PC)	295	60	1,460			1,460	0.590	0.120	861.40	175.20	686.20	0.00	686.20	C	11-15
6	Woodbury Park Exterior	Pole	WP2	W400PL	2		MH (1) 400W POLE FLOOD		(LED) NEW MAXLITE 140W AREA LIGHT TYPE 4 SK BRONZE SLIP FITTER AND COLE F RIGGING POLE (PMB A040-LED-140-14-50-14W-17-34-42-PC)	458	140	1,460			1,460	0.910	0.200	1,337.50	408.80	828.50	0.00	828.50	C	11-15
															15,330	12,831	3,500	19,508.00	5,438.50	14,070.50	0.00	14,070.50		





LINE	FLOOR/ BUILDING / AREA	ROOM	AREA TYPE	EGR CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP / PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	EXISTING OPERATING HOURS	QUANTITY	OCCUPANCY / FLOOR PLAN	PROPOSED OPERATING HOURS	EXISTING R/W	PROPOSED R/W	R/WH SAVINGS (R/WH ONLY)	R/WH SAVINGS (COMBINED R/WH ONLY)	TOTAL R/WH (COMBINED R/WH ONLY)	WEIGHT A: 1-48 B: 1-34 C: 1-24 D: 1-14 E: 1-8 F: 1-4	CEILING TYPE		
1	Exposure Park	Restrooms	EG	LED20WP	3		LED (112W) FUTURE WALL PACK	EXCLUDING CHANGE	LED (112W) FUTURE WALL PACK	LED (112W) FUTURE WALL PACK	20	20	4,300	3	4,300	0.00	0.00	262.80	262.80	0.00	0.00	A	HARD CAP	
2	Exposure Park	Restrooms	EG	CF24WP	3		CF QUAD (112W) WALL PACK		LED NEW SYLVANIA 15 WATT LED DMCOR LIGHT	LED NEW SYLVANIA 15 WATT LED DMCOR LIGHT	33	15	4,300		4,300	0.099	0.045	433.02	197.10	235.52	0.00	235.52	A	HARD CAP
3	Exposure Park	Storage	EG	DW16	1		2L EXT20X20W WE8 4" WRAP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	58	21	4,300		4,300	0.050	0.021	258.42	91.98	166.44	0.00	166.44	A	HARD CAP
4	Exposure Park	Kitchen	EG	DW16	2		2L EXT20X20W WE8 4" WRAP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	58	21	4,300		4,300	0.118	0.042	516.84	183.96	332.88	0.00	332.88	A	HARD CAP
5	Exposure Park	Pipe Chase	EG	DW16	2		2L EXT20X20W WE8 4" WRAP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	59	21	4,300		4,300	0.118	0.042	516.84	183.96	332.88	0.00	332.88	A	HARD CAP
6	Exposure Park	Storage	EG	ET16	1		2L EXT20X20W WE8 4" STRIP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	58	21	4,300		4,300	0.056	0.021	258.42	91.98	166.44	0.00	166.44	A	HARD CAP
7	Exposure Park	Pool/Batn Restrooms	EG	DW16	4		2L EXT20X20W WE8 4" WRAP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	59	21	4,300		4,300	0.226	0.084	1,033.68	357.82	685.78	0.00	685.78	A	HARD CAP
8	Exposure Park	Pool Equipment	EG	DW16	1		2L EXT20X20W WE8 4" WRAP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	59	21	4,300		4,300	0.059	0.021	258.42	91.98	166.44	0.00	166.44	A	HARD CAP
9	Exposure Park	Pool/Batn Restroom	EG	DW16	7		2L EXT20X20W WE8 4" VAPOR TIGHT		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	59	21	4,300		4,300	0.413	0.147	1,698.84	643.86	1,105.08	0.00	1,105.08	A	HARD CAP
10	Exposure Park	Pump House	EG	ET16	2		2L EXT20X20W WE8 4" STRIP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	59	21	4,300		4,300	0.118	0.042	516.84	183.96	332.88	0.00	332.88	A	HARD CAP
11	Exposure Park	Pump House	EG	ET16	1		1L EXT20X20W WE8 4" STRIP		MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	MEDIA RVLAT 10.5W 4FT BYPASS LED T8 (NAMED SEPOQA 48-10.5-44-0)	31	11	4,300		4,300	0.031	0.011	135.78	45.59	89.79	0.00	89.79	A	HARD CAP
12	Exposure Park	Teen Center	EG	KCF23TH-4	1		CF (112W) SCHWAB 4" RECESSED CAN		LED10L GREEN CREATIVE W/ R20 27K DLM (NAMED BR20CQDGM027 (R771))	LED10L GREEN CREATIVE W/ R20 27K DLM (NAMED BR20CQDGM027 (R771))	23	8	4,300		4,300	0.023	0.008	105.74	35.94	65.70	0.00	65.70	A	HARD CAP
13	Exposure Park	Teen Center	EG	MR30-4	3		MR30A (112W) R20 4" RECESSED CAN		LED10L GREEN CREATIVE W/ R20 27K DLM (NAMED BR20CQDGM027 (R771))	LED10L GREEN CREATIVE W/ R20 27K DLM (NAMED BR20CQDGM027 (R771))	85	8	4,300		4,300	0.195	0.024	854.19	105.12	748.98	0.00	748.98	A	HARD CAP
14	Exposure Park	Teen Center	EG	1510K	10		MR30A (112W) R20 4" TRACK																	

**Eastgate Ext.  
Room by Room Audit**

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED HOURS	OCCUPANCY TYPE	EXISTING KW	PROPOSED KW	EXISTING KW	PROPOSED KW	KNW SAVINGS (ONLY)	KNW SAVINGS (CONTROLS ONLY)	TOTAL KNW SAVINGS (COMBINED)	PERIOD	PERIOD	CEILING TYPE
1	EASTGATE PARK EXTERIOR	Valway	EQ2	LEDHRCST	7		LED (1)60W FUTURE POST TOP		EXCLUDING CHANGE		40	40	4,745	4,745		0.290	0.290	1,328.60	1,328.60	0.00	0.00	0.00	A		
2	EASTGATE PARK EXTERIOR	Restroom Exterior	EQ2	CF750PVP	7		CF QUAD. (1)75W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED D.C. PORCH LIGHT		33	15	4,745	4,745		0.231	0.195	1,086.10	488.23	587.87	0.00	587.87	A		
3	EASTGATE PARK EXTERIOR	Porch Shelter	EQ2	INDUCT70CC	4		INDUCTION (1)75W ROUND CEILING CANOPY		(LED) NEW DECO 20W SUBCEILING CANOPY 4K WHITE (PMI D33N-LED-40-50-ANV-WH)		78	40	4,745	4,745		0.316	0.189	1,489.42	759.20	740.22	0.00	740.22	A		
4	EASTGATE PARK EXTERIOR	Pool Bldg. Exterior	EQ2	CF713PWP	4		CF, TWIN (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED D.C. PORCH LIGHT		28	15	4,745	4,745		0.112	0.086	531.46	284.70	246.76	0.00	246.76	A		
5	EASTGATE PARK EXTERIOR	Pool Bldg. Exterior	EQ2	W70WP	1		MH, (1)70W WALL PACK		(LED) NEW DECO 20W FLOOD 5K BRONZE PHOTO CELL (PMI D43N-LED-20-50-ANV-PC)		95	20	4,745	4,745		0.095	0.020	450.70	94.90	305.80	0.00	305.80	A		
6	EASTGATE PARK EXTERIOR	Pump House Exterior	EQ2	CF713PWP	1		CF, TWIN (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED D.C. PORCH LIGHT		28	15	4,745	4,745		0.026	0.015	132.86	71.16	61.69	0.00	61.69	A		
7	EASTGATE PARK EXTERIOR	High Mast	EQ1	W400SP-6	6		MH, (1) 1800W POLE FLOOD		(LED) NEW DECO 20W LED AREA FLOOD 5000K TYPE 2 SLIP FITTER (PMI D43N-LED-20-50-ANV-PC) T-48-52-PC		1,096	300	1,241	1,241		0.400	1.890	8,041.58	2,233.80	5,807.78	0.00	5,807.78	E		
8	EASTGATE PARK EXTERIOR	Teen Exterior	EQ2	CF713PWP	7		CF, TWIN (2) 13W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED D.C. PORCH LIGHT		28	15	4,745	4,745		0.190	0.105	838.02	488.23	431.80	0.00	431.80	A		
9	EASTGATE PARK EXTERIOR	Teen Exterior	EQ2	W70FL	2		MH, (1) 70W FLOOD		(LED) NEW DECO 20W FLOOD 5K PHOTO CELL (PMI D33N-LED-20-50-ANV-PC)		95	20	4,745	4,745		0.190	0.049	901.50	189.89	711.75	0.00	711.75	A		
10	EASTGATE PARK EXTERIOR	Teen Exterior	EQ2	W70FLCC	4		MH, (1) 70W RECESSED CEILING CANOPY		(LED) NEW INFRELUX 5000K RECESSED CANOPY 12X12 (PMI CLP90016-91-5000K)		95	20	4,745	4,745		0.390	0.098	1,953.10	379.60	1,423.50	0.00	1,423.50	A		
					43								43,948	43,948		8,300	2,650	18,715.54	8,336.33	10,377.21	0.00	10,377.21			



**Guttsky Park**  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	SEN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	PROPOSED HOURS	OCCUPANCY SENSOR TYPE	EXISTING KW	PROPOSED KW	EXISTING NMH	PROPOSED NMH	NMh SAVINGS (CONTROLS ONLY)	NMh SAVINGS (CONTROLS AND DIMMING)	TOTAL NMH (CONTROLS AND DIMMING)	MOONLIGHT	CEILING TYPE
1	Guttsky Park	Pole	GY	W250HCKEPL	4		MA (1) 250W SHROBOX POLE		(LED) AND SUPERIOR LIFE 70W SK LED VS SHROBOX RETROFIT (PMH LED VS SHROBOX RETROFIT (L0793))	295	72	4,300	4,300		1.190	0.386	5,182.60	1,261.44	3,926.96	0.00	3,926.96	B	
2	Guttsky Park	Pole	GY	S250LPL	2		MPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W SK T4 BRONZE SLIP FITTER (PMH D11-LED-60-00-00-14-SF-60)	295	90	4,300	4,300		0.590	0.120	2,384.20	525.60	2,959.60	0.00	2,959.60	B	
3	Guttsky Park	Restroom Exterior	GY	W70WPP	4		MA (1) 70W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT SK BRONZE PHOTO CELL (PMH D110LED-20-00-00-14-PC)	95	20	4,300	4,300		0.300	0.080	1,664.00	350.40	1,314.00	0.00	1,314.00	A	
4	Guttsky Park	Restroom	GY	W70WPP	2		MA (1) 70W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT SK BRONZE PHOTO CELL (PMH D110LED-20-00-00-14-PC)	95	20	4,300	4,300		0.190	0.040	832.20	175.20	657.00	0.00	657.00	A	
5	Guttsky Park	Pump Chamber	GY	DV18	2		2L P2X2T022W W/ES 4" VAPOR TIGHT		(LED) RVL T 18.5W 4FT BYPASS LED T8 (MAID DEPO4 48-10-54-60)	99	21	4,300	4,300		0.118	0.042	518.84	183.96	332.88	0.00	332.88	A	
												21,800	21,800		2,458	0.870	10,788.04	2,488.00	8,299.44	0.00	8,299.44		

**Atlanta and Garden Grove Park**  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ROOM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	PROPOSED HOURS	EXISTING HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWH SAVINGS (CONTROLS ONLY)	RWH SAVINGS (CONTROLS ONLY)	TOTAL RWH COMBINED LIGHTING (CONTROLS)	HEIGHT A: 14-16 B: 14-16 C: 14-16 D: 14-16 E: 14-16 F: 14-16	CEILING TYPE
1	Atlanta Park	Elevator	GG2	WTRWP	1		MH (1) 70W WALL PACK		(LED) NEW DECO 20W PORCH LIGHT 8K BRONZE PHOTO CELL (PM D1H-LED-55-50-UN-7A-SF-42)	85	20	2,847	2,847	0.026	0.026	276.47	56.94	213.53	0.00	213.53	A	
2	Atlanta Park	Elevator	GG2	KCF2TW-4	1		CF (1) 20W SCREW-IN 4" RECESSED CAN		(LED) GREEN CREATIVE 15.5W 40T 8K BRONZE 27K DIM (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	23	8	2,847	2,847	0.023	0.023	85.48	22.78	42.71	0.00	42.71	A	
3	Atlanta Park	Elevator	GG2	CF213PWP	2		CF TWK (2) 10W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DCL PORCH LIGHT	28	15	2,847	2,847	0.006	0.006	159.45	85.41	74.02	0.00	74.02	A	
4	Atlanta Park	Elevator	GG2	TPSL	14		BICAL (1) 70W FLOOD		(LED) GREEN CREATIVE 15.5W 40T 8K BRONZE 27K DIM (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	75	17	2,847	2,847	1.000	0.234	2,889.36	877.58	2,311.78	0.00	2,311.78	A	
5	Atlanta Park	Elevator	GG2	KW7B-5	8		MH (1) 70W F RECESSED CAN		(LED) GREEN CREATIVE 15.5W 40T 8K BRONZE 27K DIM (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	85	19	2,847	2,847	0.780	0.148	2,183.72	421.36	1,742.36	0.00	1,742.36	A	
6	Atlanta Park	Restrooms	GG	DW7B	2		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	58	21	2,847	2,847	0.116	0.042	335.96	118.37	218.37	0.00	218.37	A	
7	Atlanta Park	Staircase	GG	DW7B	3		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	59	21	2,847	2,847	0.177	0.082	503.92	179.35	324.56	0.00	324.56	A	
8	Atlanta Park	Staircase	GG	KLED-6	8		LED (1) 12W F RECESSED CAN		EXCLUDED/NO CHANGE	12	12	2,847	2,847	0.096	0.096	273.31	273.31	0.00	0.00	0.00	A	
9	Atlanta Park	Electrical	GG	DW7B	1		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	59	21	2,847	2,847	0.059	0.021	167.87	59.79	108.19	0.00	108.19	A	
10	Atlanta Park	Walkway	GG2	WTRPOST	14		MH (1) 170W POST TOP		(LED) 1X SUPERIOR 48 WATT LED MODUL DCL RETROFIT	215	45	2,847	2,847	3.010	0.036	8,589.47	1,793.81	6,795.66	0.00	6,795.66	A	
11	Atlanta Park	Walkway	GG2	LEDAPOST	4		LED (1) 100W FEATURE POST TOP		EXCLUDED/NO CHANGE	40	40	2,847	2,847	0.160	0.160	455.52	455.52	0.00	0.00	0.00	A	
12	Atlanta Park	Office	GG	DW7B	6		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	59	21	2,847	2,847	0.354	0.120	1,007.84	354.79	649.12	0.00	649.12	A	
13	Garden Grove Park	East Parking Lot	GG2	S250PL	4		HPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W 8K 1X BRONZE SLIP FITTER (PM D211-LED-55-50-UN-7A-SF-42)	295	60	2,847	2,847	1.160	0.240	3,389.46	63.26	2,876.10	0.00	2,876.10	B	
14	Garden Grove Park	Ballfield	GG1	LED6SLPL	4		LED (1) 60W FEATURE POLE FLOOD		EXCLUDED/NO CHANGE	60	60	1,480	1,480	0.240	0.240	302.40	302.40	0.00	0.00	0.00	B	
15	Garden Grove Park	Middle Field	GG1	S250PL	25		HPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W 8K 1X BRONZE SLIP FITTER (PM D211-LED-55-50-UN-7A-SF-42)	295	60	1,480	1,480	0.785	1.360	9,506.10	2,514.80	7,881.30	0.00	7,881.30	B	
16	Garden Grove Park	Middle Field	GG1	LED6SLPL	1		LED (1) 60W FEATURE POLE FLOOD		EXCLUDED/NO CHANGE	60	60	1,480	1,480	0.080	0.080	87.60	87.60	0.00	0.00	0.00	B	
17	Garden Grove Park	Pavilion	GG2	W150WPP	12		MH (1) 150W WALL PACK		(LED) NEW MAJESTY LED WALL MOUNT SHALL WALL PACK 50W 4800 LM 5000K BRONZE UNV DCL WIDOW BUTTON PHOTOCELL (PM WPS080500PC140888)	180	50	2,847	2,847	2.290	0.800	8,431.16	1,702.20	4,728.96	0.00	4,728.96	B	
18	Garden Grove Park	West Parking	GG2	S250PL	7		HPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W 8K 1X BRONZE SLIP FITTER (PM D211-LED-55-50-UN-7A-SF-42)	295	60	2,847	2,847	2.065	0.420	5,879.06	1,195.74	4,683.32	0.00	4,683.32	B	
19	Garden Grove Park	Middle Field Parking	GG2	S250PL	7		HPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 60W 8K 1X BRONZE SLIP FITTER (PM D211-LED-55-50-UN-7A-SF-42)	295	60	2,847	2,847	2.065	0.420	5,879.06	1,195.74	4,683.32	0.00	4,683.32	B	
20	Garden Grove Park	Front Field Restroom	GG	LEDANPP	3		LED (1) 60W FEATURE WALL PACK		EXCLUDED/NO CHANGE	40	40	2,847	2,847	0.120	0.120	341.54	341.54	0.00	0.00	0.00	B	
21	Garden Grove Park	Front Field Restroom	GG	CF24PWP	6		CF QUAD (1) 20W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DCL PORCH LIGHT	33	15	2,847	2,847	0.186	0.096	563.71	258.23	307.48	0.00	307.48	A	
22	Garden Grove Park	Front Field Restroom Exterior	GG2	CF24PWP	3		CF QUAD (1) 20W WALL PACK		(LED) NEW SYLVANIA 15 WATT LED DCL PORCH LIGHT	33	15	2,847	2,847	0.096	0.096	281.85	132.12	152.74	0.00	152.74	A	
23	Garden Grove Park	Snack Bar	GG	DW7B	2		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	59	21	2,847	2,847	0.116	0.042	335.96	118.37	218.37	0.00	218.37	A	
24	Garden Grove Park	Pipe Chase	GG	DW7B	2		2L F20T020W W EB 4" WRAP		(LED) RAL 15.5W 40T BYPASS LED T8 (NATED 19077TV (NATED 17P-4350-50-50-UN-7A-SF-42))	59	21	2,847	2,847	0.116	0.042	335.96	118.37	218.37	0.00	218.37	A	

**Atlanta and Garden Grove Park  
Room by Room Audit**

25	Garden Grove Park	Storage	GG	DW16	1		2L FST0220W WEB 4' WRAP	LED12L RVL 16.5W 4FT BYPASS LED T8 (NAED SEFO4-48-10-54-40)	59	21	2,847		2,847	0.006	0.021	187.97	50.79	106.10	0.00	106.10	A	
26	Garden Grove Park	Compound Exterior	GG2	S25MTL	4		HPBL (1) 250W FLOOD	LED1 NEW BECO FLOOD 60W RKT 14 BRONZE SLIP FITTER (PMS Q211LED-60-60W-14-35-40)	295	60	2,847		2,847	1.190	0.240	3,369.45	683.26	2,676.19	0.00	2,676.19	B	
27	Garden Grove Park	Compound Exterior	GG2	MCWPP	1		INCAN (1) 60W WALL PACK	LED11L GREEN CREATIVE 60W 180MM 4000K ENCLOSED FIX (NAED 1A180MM40 (87763))	60	9	2,847		2,847	0.000	0.009	170.82	25.62	145.20	0.00	145.20	A	
28	Garden Grove Park	Compound Exterior	GG2	CF13TW	4		CF (1) 23W 60CM-AH KEYLESS	LED11L GREEN CREATIVE LED 180MM LAMP 12W 4000K 1180LM DM (NAED 12A180MM12 (81778))	23	12	2,847		2,847	0.002	0.046	281.82	136.86	125.27	0.00	125.27	A	
29	Garden Grove Park	Compound	GG	CF13TW	1		CF (1) 13W SCREEN-AH KEYLESS	LED11L GREEN CREATIVE LED 180MM 4000K ENCLOSED FIX (NAED 1A180MM40 (87763))	13	9	2,847		2,847	0.013	0.006	37.91	25.62	11.36	0.00	11.36	A	
30	Garden Grove Park	Compound	GG	ETAS	3		2L FST0220W WEB 4' STRIP	LED12L RVL 16.5W 4FT BYPASS LED T8 (NAED SEFO4-48-10-54-40)	59	21	2,847		2,847	0.177	0.053	503.82	170.36	334.56	0.00	334.56	A	
31	Garden Grove Park	Compound	GG	AWTIL	1		4L FST0220W WEB 8' WRAP	LED12L RVL 16.5W 4FT BYPASS LED T8 (NAED SEFO4-48-10-54-40)	112	42	2,847		2,847	0.112	0.042	318.86	118.37	199.29	0.00	199.29	A	
32	Garden Grove Park	Compound	GG	A3TAL	8		4L FST0220W WEB 8' INDUSTRIAL	LED12L RVL 16.5W 4FT BYPASS LED T8 (NAED SEFO4-48-10-54-40)	112	42	2,847		2,847	0.096	0.336	2,550.91	866.89	1,594.32	0.00	1,594.32	A	
33	Garden Grove Park	Compound	GG	DW16	6		2L FST0220W WEB 4' WRAP	LED12L RVL 16.5W 4FT BYPASS LED T8 (NAED SEFO4-48-10-54-40)	59	21	2,847		2,847	0.354	0.126	1,007.84	338.72	648.12	0.00	648.12	A	
										187	89 790		89 790	24.229	6.174	59,183.07	15,250.07	43,933.00	0.00	43,933.00		

LAMP	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	EIN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	OCCUPANCY CATEGORY	PRIOR-ORDER MONTHS	EXISTING RW	PROPOSED RW	RW SAVING (LIGHTING ONLY)	RW SAVINGS (BATHROOM CONTROLS ONLY)	TYP A, RWI (COMBINED LIGHTING AND CONTROLS)	TYPE A, RWI (A: 1-HR B: 10-MIN C: 2-HR D: 4-HR E: 6-HR F: 8-HR)	
1	Magnolia Park Community Center	Open Area	MP	AWT8	16		4L FXTM20ZW W/EB 4' WRAP	(LED)HL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	112	42	4200		4200	2.91E	8.75E	5.51E.00 Y	0.00	5.51E.00 Y	A	HARD CAP
2	Magnolia Park Community Center	Open Area	MP	KCFZJTNH-4	12		CF (1) 12W SCREW-IN R RECESSED CAN	(LED)HL GREEN CREATIVE W/ 90CCT 2PK DIM. (NAED SEPDA) (PMS LATERNAS) (HG-DERRIS-C-AS2-TANNH)	23	8	4200		4200	0.27E	0.09E	1,200.84	789.62	785.42 Y	A	HARD CAP
3	Magnolia Park Community Center	Open Area	ES	X	2		EXIT INCAN. (2) 20W LAMP EXIT	(LED) NEW MCKENSI EXIT RED (PM MEDIORWHB1)	40	3	8760		8760	0.00E	0.00E	700.90	52.36	642.24 Y	A	HARD CAP
4	Magnolia Park Community Center	Open Area	MP	P7TES	2		2L PWB11 W/MB 6' STRIP	(LED) AND (USE SPEN 4' INW LED T8 44 DIRECT WIRE DOWN) (PMS LATERNAS) (HG-DERRIS-C-AS2-TANNH)	109	58	4200		4200	0.11E	0.11E	954.84	489.56	464.28 Y	A	HARD CAP
5	Magnolia Park Community Center	Open Area	MP	ET8	1		2L FXTM20ZW W/EB 4' STRIP	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.09E	0.02E	254.42	81.96	166.44 Y	A	HARD CAP
6	Magnolia Park Community Center	Office	MP	AWT8	1		4L FXTM20ZW W/EB 4' WRAP	(LED)HL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	112	42	4200		4200	0.11E	0.04E	485.58	306.60	306.60 Y	A	HARD CAP
7	Magnolia Park Community Center	Restrooms	MP	DVT8	2		2L FXTM20ZW W/EB 4' WRAP	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.11E	0.04E	516.84	322.88	332.88 Y	A	HARD CAP
8	Magnolia Park Community Center	Office	MP	AWT8	2		4L FXTM20ZW W/EB 4' WRAP	(LED)HL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	112	42	4200		4200	0.09E	0.00E	861.12	507.62	812.20 Y	A	HARD CAP
9	Magnolia Park Community Center	Restrooms	MP	DVT8	2		2L FXTM20ZW W/EB 4' VAPOR TIGHT	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.11E	0.04E	516.84	322.88	332.88 Y	A	HARD CAP
10	Magnolia Park Community Center	Planting Chaise	MP	DVT8	1		2L FXTM20ZW W/EB 4' VAPOR TIGHT	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.09E	0.02E	254.42	81.96	166.44 Y	A	HARD CAP
11	Magnolia Park Pool Building	Pool Equipment	MP	P7TJ25	2		2L PWB11 W/MB 6' STRIP	(LED) AND (USE SPEN 4' INW LED T8 44 DIRECT WIRE DOWN) (PMS LATERNAS) (HG-DERRIS-C-AS2-TANNH)	123	58	4200		4200	0.24E	0.11E	1,077.48	489.56	568.92	A	HARD CAP
12	Magnolia Park Pool Building	Pool Equipment	MP	ET8	1		2L FXTM20ZW W/EB 4' STRIP	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.09E	0.02E	254.42	81.96	166.44 Y	A	HARD CAP
13	Magnolia Park Pool Building	Pool Equipment	MP	AWT8L	1		4L FXTM20ZW W/EB 8' WRAP	(LED)HL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	112	42	4200		4200	0.11E	0.04E	490.56	306.59	306.60 Y	A	HARD CAP
14	Magnolia Park Pool Building	Pool Equipment	MP	DVT8	2		2L FXTM20ZW W/EB 4' WRAP	(LED)DL RVL1T 18.5W 4FT BYPASS LED T8 (NAED SEPDA 48-10.5-H-4d)	99	21	4200		4200	0.11E	0.04E	516.84	322.88	332.88 Y	A	HARD CAP
										49	45,700	17,082.16	6,329.10	1,479	17,082.16	18,721.02	18,721.02	18,721.02	18,721.02	



Fayette Park  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECM CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP /	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	QUANTITY	OCCUPANCY / PERSON TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	SAVINGS (LIGHTING ONLY)	SAVINGS (CONTROLS ONLY)	TOTAL RWH SAVINGS (COMBINED AND CONTROLS)	CEILING TYPE	MARKET	AL-141	BI-141	CI-141	DI-141	EI-141	FI-141	
1	Fayette Park	Restroom	FP	LED20WP	1		LED (110W) PICTURE WALL PACK		EXCLUDING CHANGE		20	20	3,504			3,504	0.020	0.020	70.08	70.08	0.00	0.00	0.00		A							
2	Fayette Park	Storage	FP	DWTE	1		2L F2X2T8X2W WE B 4" WRAP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		59	21	3,504			3,504	0.026	0.021	206.74	73.56	133.15	0.00	133.15		A							
3	Fayette Park	Restroom	FP	LED20WP	1		LED (110W) PICTURE WALL PACK		EXCLUDING CHANGE		20	20	3,504			3,504	0.020	0.020	70.08	70.08	0.00	0.00	0.00		A							
4	Fayette Park	Storage	FP	DWTE	1		2L F2X2T8X2W WE B 4" WRAP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		59	21	3,504			3,504	0.026	0.021	206.74	73.56	133.15	0.00	133.15		A							
5	Fayette Park	Storage	FP	DWTE	1		2L F2X2T8X2W WE B 4" WRAP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		59	21	3,504			3,504	0.026	0.021	206.74	73.56	133.15	0.00	133.15		A							
6	Fayette Park	Storage	FP	DWTE	1		2L F2X2T8X2W WE B 4" WRAP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		59	21	3,504			3,504	0.026	0.021	206.74	73.56	133.15	0.00	133.15		A							
7	Fayette Park	Storage	FP	ETIS	1		2L F2X2T8X2W WE B 4" STRIP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		59	21	3,504			3,504	0.026	0.021	206.74	73.56	133.15	0.00	133.15		A							
8	Fayette Park	Storage	FP	AWTE	1		4L F2X2T8X2W WE B 4" WRAP		LEDXL RVL 16.5W 4FT BYPASS LED T8 (NAED SEPQA 48-10-54-49)		112	42	3,504			3,504	0.112	0.042	382.45	147.17	245.28	0.00	245.28		A							
9	Fayette Park	Exterior	FP1	W170POST	12		MH (1) 170W POST TOP		(LED) 1L SUPERBRIGHT 48 WATT LED MODULE C RETROFIT		215	45	2,810			2,810	2.560	0.548	6,733.16	1,499.27	5,233.89	0.00	5,233.89		A							
10	Fayette Park	Exterior	FP1	LED40WP	4		LED (110W) PICTURE WALL PACK		EXCLUDING CHANGE		40	40	2,810			2,810	0.180	0.180	417.56	417.56	0.00	0.00	0.00		A							
11	Fayette Park	Exterior	FP1	LED60RFL	7		LED (160W) PICTURE POLE FLOOD		EXCLUDING CHANGE		80	60	2,810			2,810	0.420	0.420	1,086.10	1,086.10	0.00	0.00	0.00		C							
12	Fayette Park	Exterior	FP1	S250RFL	3		MPS (1) 250W POLE FLOOD		(LED) NEW DECO FLOOD 80W 4X 24 BRONZE SLIP FITTER (PM 1211-LED-80-40-24-24-24-24)		295	60	2,810			2,810	9.845	0.190	2,309.63	489.76	1,829.87	0.00	1,829.87		C							
13	Fayette Park	Exterior	FP1	LED60RFL	1		LED (160W) PICTURE POLE FLOOD		EXCLUDING CHANGE		60	60	2,810			2,810	0.060	0.060	158.56	158.56	0.00	0.00	0.00		C							
14	Fayette Park	Exterior	FP1	INDUCT100C	1		INDUCTION (110W) ROUND CEILING CANOPY		(LED) NEW DECO 48W SURFACE CANOPY 4X WHITE (PM 1211-LED-48-40-40-40-40-40)		79	40	2,810			2,810	0.079	0.040	208.17	164.38	101.78	0.00	101.78		B							
																4,181	1,547	12,489.46	4,300.80	8,178.55	0.00	8,178.55										



LANE	FLOOR / BUILDING AREA	ROOM	AREA TYPE	BCH CODE	QUANTITY	ESTIMATE#	EXISTING LUMINAIRE	LAMP BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	QUANTITY	OCCUPANCY CATEGORY	PROPOSED OPERATING HOURS	EXISTING RW	PROPOSED RW	EXISTING RHH	PROPOSED RHH	RWV SAVINGS (KWH/ANNUAL)	RWV BAYPOTENTIAL (KWH/ANNUAL)	TOTAL RWV SAVINGS (COMBINED LIGHTING CONTROLS) (KWH/ANNUAL)	HEIGHT A: 1-8 B: 9-34 C: 35-44 D: 45-60 E: 61-80 F: 81+
1	Chapman Sports Complex	Restrooms Exterior	C5	LED2SWP	4		LED (120W PICTURE WALL PACK	EXCLUDED/NO CHANGE		20	20	1,824			1,824	0.006	0.006	145.52	145.52	0.00	0.00	0.00	A
2	Chapman Sports Complex	Restrooms	C5	ETI	2		2. EXISTING W/EF 4' STRIP	LED (2X 18"W 4' BYPASS LED TRIMMED SEPAC 48"-10.5-H-44)		59	21	1,824			1,824	0.177	0.003	322.85	114.81	207.94	0.00	207.94	E
3	Chapman Sports Complex	Tennis	A	W100SP-PORTPL	37		MH (1) 1000W SPORTS LIGHTER	LED NEW DECO 360W 5000K SPORTS FLOOD POST TOP MOUNT BRONZE (RATED-LED-360-50-50-UNV-PF-82)		500	500	1,000			1,000	39.860	12.850	39.860.00	12.850.00	27.010.00	0.00	27.010.00	E
4	Chapman Sports Complex	Tennis	A	LED2NSPORTFL	11		LED (120W PICTURE SPORTS LIGHTER	EXCLUDED/NO CHANGE		280	280	1,000			1,000	3.006	3.006	3.006.00	3.006.00	0.00	0.00	0.00	E
5	Chapman Sports Complex	Handball	A	W100SP-PORTPL	8		MH (1) 1000W SPORTS LIGHTER	LED NEW DECO 360W 5000K SPORTS FLOOD POST TOP MOUNT BRONZE (RATED-LED-360-50-50-UNV-PF-82)		500	500	1,000			1,000	8.480	2.100	8.480.00	2.100.00	4.380.00	0.00	4.380.00	E
6	Chapman Sports Complex	Hockey	A	W100SP-PORTPL	19		MH (1) 1000W SPORTS LIGHTER	LED NEW DECO 360W 5000K SPORTS FLOOD POST TOP MOUNT BRONZE (RATED-LED-360-50-50-UNV-PF-82)		350	350	1,000			1,000	10.890	3.500	18.800.00	3.500.00	7.300.00	0.00	7.300.00	E
															7,848	60,577	21,772	62,783.77	21,889.23	38,897.54	0.00	38,897.54	

[illegible]



**Sports & Recreation Center Ext.**  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	REN CODE	QUANTITY	ESTIMATE	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING HOURS	QUANTITY	OCCUPANCY / WORK TYPE	PROPOSED HOURS	EXISTING KW	PROPOSED KW	EXISTING RW	PROPOSED RW	KWH SAVINGS (EXISTING ONLY)	KWH SAVINGS (CONTROLS ONLY)	TOTAL KWH SAVINGS (COMBINED AND CONTROLS)	HEIGHT A: 14-8 B: 14-34 C: 24-34 D: 48-88 E: 88+	CEILING TYPE
1	Sports And Recreation Center Exterior	Exterior Building	SR1	CF264PWP	16		CF QUAD (1) 26W WALL PACK	(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT		33	15	4,271			4,271	0.94	0.279	2,306.68	1,133.84	1,333.84	0.00	1,333.84	A	
2	Sports And Recreation Center Exterior	Exterior Building	SR1	CF2264PWP	16		CF QUAD (2) 26W WALL PACK	(LED) NEW SYLVANIA 15 WATT LED DLC PORCH LIGHT		66	15	4,271			4,271	0.860	0.150	2,818.53	640.58	2,177.95	0.00	2,177.95	A	
3	Sports And Recreation Center Exterior	Exterior Building	SR1	K264P-8	2		CF QUAD (1) 26W 8" RECESSED CAN	(LED) AND GE BINCH 15.5W 4K RETROFIT DOWNLIGHT (PWR FC-8-15-4-40-WD-SD-CL-MR-V-V-16)		33	16	4,271			4,271	0.906	0.031	281.85	132.38	169.47	0.00	169.47	A	
4	Sports And Recreation Center Exterior	Exterior Building	SR1	K264P-JER	2		CF QUAD (1) 26W 8" RECESSED CAN EMERGENCY	(LED) AND ACUTY F LED RECESSED CAN RETROFIT WITH 15.5W 4K RETROFIT DOWNLIGHT (PWR FC-8-15-4-40-WD-SD-CL-MR-V-V-16)		33	17	4,271			4,271	0.906	0.034	281.85	146.81	134.95	0.00	134.95	A	
5	Sports And Recreation Center Exterior	Exterior Building	SR1	K264P-8	2		CF QUAD (1) 26W 8" RECESSED CAN	(LED) AND GE BINCH 15.5W 4K RETROFIT DOWNLIGHT (PWR FC-8-15-4-40-WD-SD-CL-MR-V-V-16)		33	18	4,271			4,271	0.906	0.031	281.85	132.38	169.47	0.00	169.47	A	
6	Sports And Recreation Center Exterior	POLE	SR1	LED48POST	2		LED (140W) FIXTURE POST TOP	EXCLUDE/NO CHANGE		40	40	4,271			4,271	0.080	0.080	341.84	341.84	0.00	0.00	0.00	A	
												25.623	25.623		25.623	1.132	0.986	6,592.41	2,546.20	3,996.40	0.00	3,996.40		

Civic Center Parking  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	QUANTITY	ESTIMATE?	EXISTING LUMINAIRE	LAMP / BALLAST / LUMINAIRE	PROPOSED	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	PROPOSED OPERATING HOURS	EXISTING KW	PROPOSED KW	EXISTING KWH	PROPOSED KWH	KWH SAVINGS (LIGHTING ONLY)	KWH SAVINGS (CONTROLS ONLY)	TOTAL KWH (COMBINED LIGHTING AND CONTROLS)	HEIGHT	CEILING TYPE
1	Civic Center Parking	Parking Plaza	EXT	W715LEP1	47		MA (1) 170W GLOBE POST TOP		1x SUPERBRIGHT GLOW LED COB 3x MODUL BASE	215	45	4,360	4,360	18.155	2.115	44,259.85	8,263.79	24,996.20	0.00	34,996.20	A	
					47							4,360	4,360	18.155	2.115	44,259.85	8,263.79	24,996.20	0.00	34,996.20		

Library Parking  
Room by Room Audit

LINE	FLOOR / BUILDING / AREA	ROOM	AREA TYPE	ECN CODE	EXISTING QUANTITY	BALASTS?	EXISTING LAMP / BALLAST / LUMINAIRE	PROPOSED BALLAST / LUMINAIRE	LAMP /	EXISTING WATTAGE	PROPOSED WATTAGE	EXISTING OPERATING HOURS	QUANTITY	OCCUPANCY SENSER TYPE	PROPOSED OPERATING HOURS	EXISTING KW	PROPOSED KW	EXISTING RWH	PROPOSED RWH	RWV SAVINGS (LUMINAIRE ONLY)	RWV SAVINGS (CONTROLS ONLY)	TOTAL RWH SAVINGS (LUMINAIRE AND CONTROLS)	USG/FT <sup>2</sup> A1: 1-41 B1: 15-34 C1: 35-44 D1: 45-49 E1: 46-49 F: 50+	CEILING TYPE	
1	Library Parking	Parking Poles	LP	W775GUBPT	24		MM, (1) TSW GLOBE POST TOP	11 SUPERIOR LIFE DIM LED C8B 3X MODULE BASE		215	45	3,504	24		3,504	5.160	1.000	18,088.64	3,764.32	14,298.32	8.00	14,298.32	14,298.32	A	

City of Garden Grove  
Appendix 2  
Plug Load Audit

City of Garden Grove- Plug Load														Plug Load				Total				# Ext cord		# Per equip			
# of Berts														1				2				0		23			
Total Annual Net kWh Savings														1,438				2,051				1,438		101		4,196	
Device Type:														M Print				Lg Coffes				Wtr Frn		AC-110 (15A)			
Watts:														8				8,760				8,760		8,760		8,760	
Baseline Hours ON:														8,760				8,760				8,760		8,760		8,760	
City Hall														1				2				1		0		0	
# of Berts														5				2,210				2,210		6,550		2,980	
Schedul ON Hours (Bert)														655				1,048				734		491		00	
Annual Net Hours Savings														0.10				0.16				0.08		0.11		0.00	
Total Annual Net kWh Savings														876.00				1401.60				981.12		657.00		0.00	
Existing kW														0.01				0.00				0.00		0.00		0.00	
Existing kW														70.08				0.00				0.00		0.00		0.00	
Proposed kW														0.16				0.00				0.00		0.00		0.00	
Savings kW														221.00				353.60				247.52		165.75		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														655.00				1048.00				733.60		491.25		0.00	
Community Meeting Center, H. Louis Lake Senior Center														0				1				3		0		0	
# of Berts														0				4,165				4,165		4,165		4,165	
Schedul ON Hours (Bert)														4,595				4,595				4,595		4,595		4,595	
Annual Net Hours Savings														00				184				110		00		551	
Total Annual Net kWh Savings														0.00				0.04				0.02		0.00		0.00	
Existing kW														0.00				36.40				20.24		0.00		0.00	
Existing kW														0.00				0.00				0.00		0.00		0.00	
Proposed kW														0.00				166.60				89.86		233.24		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				183.60				110.28		257.32		551.4	
Municipal Service Center (Public works or The Yard)														1				3				0		1		2	
# of Berts														7				2,450				2,450		2,450		2,450	
Schedul ON Hours (Bert)														6,310				6,310				6,310		6,310		6,310	
Annual Net Hours Savings														50				757				00		252		1,060	
Total Annual Net kWh Savings														863				0.12				0.00		0.04		0.15	
Existing kW														0.01				1228.40				1051.20		350.40		1471.98	
Existing kW														70.08				0.14				0.00		0.04		0.00	
Proposed kW														0.01				0.12				0.00		0.17		0.02	
Savings kW														19.60				24.80				11.60		36.20		1572.9	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														50.48				757.20				0.00		946.50		190.96	
Buena Clinton Youth & Family Center														1				0				1		0		0	
# of Berts														2				2,210				2,210		2,210		2,210	
Schedul ON Hours (Bert)														6,550				6,550				6,550		6,550		6,550	
Annual Net Hours Savings														105				262				52		00		66	
Total Annual Net kWh Savings														0.02				0.04				0.00		0.00		0.01	
Existing kW														140.16				175.20				350.40		70.08		0.00	
Existing kW														0.02				0.04				0.01		0.00		0.00	
Proposed kW														0.02				0.00				0.00		0.00		0.00	
Savings kW														35.36				44.20				78.80		17.88		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00				0.00		0.00		0.00	
Savings kW														0.00				0.00									

Location		Operation
City Hall		Mon-Thur 7:30am-5:30pm; Every Alternating Friday 8am-5pm, Sat-Sun Closed
Occupied Hours		2210
Unoccupied Hours		6550
Comm Center/ Senior Center		Mon-Fri 7:30am-5:30pm (CMC/SC); Sat: 6am-Noon; Sunday 12:30- midnight
Occupied Hours		4165
Unoccupied Hours		4595
Public Works / Municipal Service		M-F 7:30am-5:30pm
Occupied Hours		2450
Unoccupied Hours		6310
Buena Client		M-Th 9am-7pm; Friday only special events (customer notes)
Occupied Hours		2210
Unoccupied Hours		6550

**City of Garden Grove  
Appendix 3  
BERT Pre-Installation Software Network Setup**



## **Pre-Installation Software and Network Setup Guide**

### **Introduction**

The Bert Plug Load Management System consists of a software application, Bertbrain 1000, and Bert® Smart Plugs and/or Bert® Inline units Bert® that measure and turn OFF & ON plug load devices such as printers, projectors, water coolers, vending machines, charging carts, AC units, etc. during nights, weekends, and holidays when your buildings are unoccupied. The Bert® devices are wireless nodes that use the existing IP network to send/receive UDP messages (using ports 8255 & 8256) to the Bertbrain 1000 application, residing on a Windows Server 2008, or higher, attached to the IP network. Bert® devices use either WPA\WPA2 Personal PSK or WPA2 Enterprise security-username and password over a standard Wi Fi 802.11 b\g\n in the 2.4GHZ wireless spectrum.

### **Items needed for Bert Load Management System:**

**\*\*Software download: [www.bertbrain.com/support](http://www.bertbrain.com/support) >register> fill in all required information**

**-Install Bertbrain1000 software (instructions below)**

**\*Allow Bertbrain1000 software thru the Windows FW**

**\*Add WLAN Service as a feature**

**-Create SSID for the Berts**

**-Create PSK (WPA Personal) or Username\Password (WPA Enterprise)**

**-Provide Static IP Address of the Server**

### **The minimum server requirements are:**

- Windows Server 2008\2012\2016 installed as VM or Stand-alone Server
- 50-100 GB Hard Drive
- 4-8 GB RAM (depending on number of Berts)
- Dual-Core Processor
- .Net of 3.5 and higher

### **Bertbrain 1000 Software Registration and Download**

To download the Bertbrain 1000 software on the server, you will need to register with your email address at the following URL:  
<http://bertbrain.com/wp-login.php?action=register>

Once the registration is completed and approved, log into our website's Support portal to download the software onto the server at the following URL: <http://www.bertbrain.com/wp-login.php>



**Technical Questionnaire (Please enter in the following):**

1. Primary IT Contact Name: [Click or tap here to enter text.](#)
2. Primary IT Contact Email Address: [Click or tap here to enter text.](#)
3. Primary IT Contact Phone Number: [Click or tap here to enter text.](#)
4. MAC Authentication being used? [Click or tap here to enter text.](#)
5. For WPA/WPA2 Personal Network Encryption:
  - Wireless Network SSID: [Click or tap here to enter text.](#)
  - Wireless Network PSK: [Click or tap here to enter text.](#)
  - Server IP Address for Bertbrain 1000 software: [Click or tap here to enter text.](#)
6. For WPA/WPA2 Enterprise Network Encryption:
  - Wireless Network SSID: [Click or tap here to enter text.](#)
  - Windows Active Directory Username\Password: [Click or tap here to enter text.](#)
  - Server IP Address for Bertbrain 1000 software: [Click or tap here to enter text.](#)

**Remote Access**

The Bert Support team requires temporary remote access to the server running Bertbrain 1000 during the installation. As each Bert® is installed, the Bert support team will verify two-way communication between the Berts and the Bertbrain 1000 software. Remote access will also allow us to name and schedule the Berts. Once we have completed network verification and set up, remote access can be revoked.

7. Remote Access (needed during Bert Installation):
  - Remote Access Method: [Click or tap here to enter text.](#)
  - Remote Log in User ID: [Click or tap here to enter text.](#)
  - Remote Log in Password: [Click or tap here to enter text.](#)
  - Server Log in User ID: [Click or tap here to enter text.](#)
  - Server Log in Password: [Click or tap here to enter text.](#)

Please contact the Bert® Support team at either 484-690-3822 or [support@bertbrain.com](mailto:support@bertbrain.com) if you need any assistance.

**City of Garden Grove**

**INTER-DEPARTMENT MEMORANDUM**

To: From:  
Dept.: Dept.: City Clerk  
Subject: Report on staff review of the Date:  
Orange County Fire Authority  
(OCFA) fire service  
proposal. (*Action Item*)

---

**ATTACHMENTS:**

<b>Description</b>	<b>Upload Date</b>	<b>Type</b>	<b>File Name</b>
OCFA Proposal Review	7/11/2018	Backup Material	OCFA_Proposal_Review.pdf



# OCFA PROPOSAL REVIEW

JULY 10, 2018

# Fire Department OCFA/FSP

## Analysis

### Background

Key Operational Issues Garden Grove Fire Department is Facing:

1. **Paramedic Response Times**
2. **Retention & Recruitment**
3. **Public Safety Infrastructure**

These issues were identified in the 2016 Fire Department Deployment Report.

# Fire Department OCFA/FSP Analysis

3

Fire department staff reviewed the Fire Service Proposal from OCFA and determined the following:

1. Paramedic Response Times
  - ▶ Paramedic response times would improve with the proposed redeployment of staffing by providing 2 trained Paramedics at each fire station
  - ▶ The replacement of 1 engine company with a truck company would also improve truck services in the western part of town

# Fire Department OCFA/FSP

## Analysis

4

### 2. Retention & Recruitment

- ▶ *The OCFA does not have the same issues recruiting new firefighters and paramedics due to their competitive position in the workforce*

### 3. Public Safety Infrastructure

- ▶ *The OCFA FSP lays out the start of a strategic road map to deal with the city's current aging infrastructure*

# Fire Department OCFA/FSP

## Analysis

5

### Findings

- ▶ After reviewing the OCFA FSP, no negative operational impacts were found for the fire/paramedic service to the citizens of Garden Grove
- ▶ The FSP embraces many of the recommendations within the 2016 Fire Department Deployment Report
- ▶ Paramedic response times are improved with the redeployment of paramedics/firefighters, as recommended in the FSP
- ▶ Truck company service is improved on the west side of the city with the proposed FSP

# Side By Side Analysis

## Daily Equipment & Staffing

6

### CURRENT (29/FF)

#### 7 Fire Stations

#### 9 Pieces of Equipment

- ▶ 7 Engines
- ▶ 1 Truck
- ▶ 1 Squad
- ▶ 1 Battalion Chief
- ▶ 8 Captains
- ▶ 8 Engineers
- ▶ 12 Firefighters
- ▶ \*10 Certified Paramedics

### OCFA/FSP (29/FF)

#### 7 Fire Stations

#### 7 Pieces of Equipment

- ▶ 5 Engines
- ▶ 2 Trucks
- ▶ 1 Battalion Chief
- ▶ 7 Captains
- ▶ 7 Engineers
- ▶ 14 Firefighters
- ▶ \*14 Certified paramedics



# Daily Paramedics Staffing

7

<u>STATION</u>	<u>CURRENT *10/PM</u>	<u>OCFA/FSP *14/PM</u>
1	1 BC (1.0) 1 Engine (3.0) 1 Truck (3.0) 1 Squad (2.0) *2PM	1 BC (1.0) 1 Truck (4.0)*2PM
2	1 Engine (4.0)*2PM	1 Engine (4.0)*2PM
3	1 Engine (3.0)*1PM	1 Engine (4.0)*2PM
4	1 Engine (3.0)*1PM	1 Engine (4.0)*2PM
5	1 Engine (4.0)*2PM	1 Truck (4.0)*2PM
6	1 Engine (3.0)*1PM	1 Engine (4.0)*2PM
7	1 Engine (3.0)*1PM	1 Engine (4.0)*2PM

# Questions

# Garden Grove Fire Department

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- ▶ FY 2018-19 Adopted Budget (June 2017)
  - ▶ \$25,122,000
    - ▶ All Salaries & Benefits
    - ▶ Contracts
    - ▶ Commodities
    - ▶ Equipment Pool, Telephones, Computers, etc.
  - ▶ Staffing
    - ▶ 84 Current Full-Time Sworn Employees, 4 Constant Manning Positions
      - ▶ 8 Vacant Positions
    - ▶ 5 Full-Time Non-Sworn Employees
      - ▶ Department Secretary, Fiscal Analyst, Sr. Fire Protection Specialist, Fire Prevention Tech
      - ▶ Public Works Fire Engine Mechanic
    - ▶ 4 Part-Time Employees
      - ▶ 2 Interns, Clerical Assistant, Fire Prevention Tech
  - ▶ Equipment Maintenance
  - ▶ 7 Fire Stations

# OCFA CONTRACT PROPOSAL

- ▶ Contract Proposal Cost - \$22,191,928
  - ▶ Capped at 4.5% Annually
  - ▶ Recapture Clause
  - ▶ Average increase 2.92%
- ▶ Option to Withdraw Every 10 Years (Year 2030)
- ▶ Personnel
- ▶ Equipment Maintenance & Replacement
- ▶ Routine Station Maintenance
- ▶ Plan Check Services
- ▶ Administration
- ▶ 1 Member on the OCFA Board of Directors

# PERSONNEL

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- ▶ All 84 Sworn Employees Will Be Offered Positions
  - ▶ Pre-employment Check
    - ▶ Medical/Physical Examination
    - ▶ Livescan
    - ▶ CA DMV Check
    - ▶ City Responsible for Employees Who Do Not Pass Pre-Employment
  - ▶ 7 Potential Demotions (may have some flexibility with OCFA)
- ▶ 5 Non-Sworn Employees
  - ▶ Requires Application through OCFA if Positions Available (may have some flexibility with OCFA)
- ▶ 4 Part-Time Employees
  - ▶ Requires Application through OCFA if Positions Available

# Sworn Positions

12

Position	OCFA Proposal	Current Filled GG Positions	Vacancies
Fire Chief	0	1	0
Fire Division Chief	0	2	0
Battalion Chief	3	3	0
Fire Captains	20	24	2
Fire Apparatus Engineers	18	22	2
Firefighter/Paramedics	36	32	4
<b>Total</b>	<b>77</b>	<b>84</b>	<b>8</b>

# Non-Sworn Positions

13

Position	OCFA Proposal	Current GG Positions
Department Secretary	0	1
Senior Fire Protection Specialist	0	1
Fire Prevention Tech	0	1
Fire Apparatus Mechanic (PW)	0	1
Fiscal Analyst	0	1
<b>Total Full-Time</b>	<b>0</b>	<b>5</b>
Part-Time Fire Prevention	0	1
Part-Time Clerical Assistant	0	1
Intern	0	2
<b>Total Part-Time</b>	<b>0</b>	<b>4</b>

# Facilities

14

- ▶ OCFA Leasing of Facilities
  - ▶ 7 Stations
  - ▶ \$1.00 Per Year for Each Facility
  - ▶ Normal Daily Maintenance Operations
  - ▶ Utilities
- ▶ City Remains Responsible For:
  - ▶ Revolving Facility Account \$15,000 Per Station (\$105,000)
    - ▶ Repairs Over \$1,000
    - ▶ To Be Replenished Annually
  - ▶ Capital Improvements
    - ▶ Repairs Over \$15,000
  - ▶ Hazard Issues (i.e. fuel tanks)
  - ▶ Property Insurance



# Equipment

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- ▶ Equipment Will Be Leased to OCFA At No Cost
  - ▶ 6 Type 1 Engines
  - ▶ 1 Battalion Chief Vehicle
  - ▶ 1 Battalion Utility
  - ▶ 1 Truck Company
  - ▶ 1 Air Light Unit
- ▶ OCFA Will Provide Maintenance of Vehicles
- ▶ Contract Cost Includes Vehicle Replacement
- ▶ Remaining City Equipment May Be Sold (Est. Value \$190,000)

# Additional Costs

16

- ▶ Start-Up Costs \$1,136,225
- ▶ Payment Over 5 Years

Description	Start-Up Cost
Service Center (Equipment/Uniforms)	\$309,661
Personnel Costs	\$152,650
Fleet Services	\$20,800
Communications/IT	\$293,146
Facilities	\$156,500
EMS	\$203,468
<b>Total</b>	<b>\$1,136,225</b>
<b>Amortized Over 5 Years</b>	<b>\$227,245</b>

# Additional Costs

17

- ▶ One-Time
  - ▶ Capital Improvement Requirements
    - ▶ \$357,000
  - ▶ Asbestos Certification
    - ▶ \$20,740

# Ongoing City Costs

18

- ▶ Pension Obligation (Pre-OCFA Unfunded Liability )
- ▶ Retiree Medical Premium Contribution
- ▶ Workers' Compensation Claims
- ▶ Records Management
- ▶ Weed Abatement
- ▶ Potential Need for 1 Additional Full-Time Staff:
  - ▶ Emergency Operations Coordination
  - ▶ Training/Compliance
  - ▶ Management of Ambulance Contract
  - ▶ Records Requests Before Transition

# Other Savings

19

- ▶ Daily Facility Maintenance
  - ▶ Utilities
- ▶ Insurance Premiums
  - ▶ General Liability - \$30,000
  - ▶ Workers' Compensation - \$70,000

# OCFA Proposal Projected Savings

20

OCFA Estimated Savings	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Annual Contract	22,592,221	23,608,870	24,671,258	25,781,464
City Budget	25,122,000	25,912,000	26,816,000	27,339,000
<b>OCFA Proposed Savings</b>	<b>2,529,779</b>	<b>2,303,129</b>	<b>2,144,730</b>	<b>1,557,523</b>

OCFA Proposal, Page 7

# Cost Analysis (Est. 2.92% Per Year)

21

	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Annual Contract (2.92%)	22,191,928	22,839,932	23,506,858	24,193,259
Annual Facility Revolving Fund (\$15,000 x 7)	105,000	105,000	105,000	105,000
Equipment Replacement (3% Per OCFA)	295,293	304,152	313,276	322,675
Start -Up (0%, 5 Years, \$1,136,225)	227,245	227,245	227,245	227,245
Capital Improvements Required	357,000	0	0	0
Asbestos Certification	20,740	0	0	0
<b>Total OCFA Estimated Contract Costs</b>	<b>23,197,206</b>	<b>23,476,329</b>	<b>24,152,380</b>	<b>24,848,178</b>
City Continuation of Services Not Included In OCFA				
Add Position for EOC Management	175,000	178,500	182,070	185,711
Hazmat Clean Up (Ocean Blue)	57,000	57,000	57,000	57,000
Records Management	38,718	13,718	13,718	13,718
<b>Total Additional Services</b>	<b>270,718</b>	<b>249,218</b>	<b>252,788</b>	<b>256,429</b>
<b>Pension Obligation (Pre-OCFA Unfunded Liability)</b>	<b>3,545,268</b>	<b>4,189,251</b>	<b>4,672,032</b>	<b>5,284,172</b>
<b>Retired Medical Premium Contribution</b>	<b>83,928</b>	<b>86,026</b>	<b>88,177</b>	<b>90,381</b>
<b>Total Cost for Fire Services with OCFA</b>	<b>27,097,120</b>	<b>28,000,824</b>	<b>29,165,377</b>	<b>30,479,161</b>
City Budget (2.92% Increase)	25,122,000	25,855,562	26,610,545	27,387,573
Fire Dept Revenue	150,000	153,000	156,060	159,181
<b>Net Cost of Fire Dept with City</b>	<b>24,972,000</b>	<b>25,702,562</b>	<b>26,454,485</b>	<b>27,228,392</b>
<b>Estimated Savings / (Additional Costs)</b>	<b>(2,125,120)</b>	<b>(2,298,262)</b>	<b>(2,710,892)</b>	<b>(3,250,769)</b>
Additional Savings: Insurance Premiums	100,000	110,000	121,000	133,100
Annual Facility Maintenance Savings	105,000	105,000	105,000	105,000
Utilities	88,012	90,652	93,372	96,173
One time Sell Off of Fire Equipment	190,000	0	0	0
<b>Total Projected Savings / (Additional Costs)</b>	<b>(1,642,108)</b>	<b>(1,992,609)</b>	<b>(2,391,520)</b>	<b>(2,916,496)</b>

# Cost Analysis (cont.)

22

	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
Annual Contract (2.92%)	24,899,702	25,626,773	26,375,075	27,145,227	27,937,868	28,753,653
Annual Facility Revolving Fund (\$15,000 x 7)	105,000	105,000	105,000	105,000	105,000	105,000
Equipment Replacement (3% Per OCFA)	332,355	342,326	352,595	363,173	374,068	385,290
Start-Up (0%, 5 Years, \$1,136,225)	227,245	0	0	0	0	0
Capital Improvements Required	0	0	0	0	0	0
Asbestos Certification	0	0	0	0	0	0
<b>Total OCFA Estimated Contract Costs</b>	<b>25,564,302</b>	<b>26,074,099</b>	<b>26,832,670</b>	<b>27,613,400</b>	<b>28,416,936</b>	<b>29,243,944</b>
City Continuation of Services Not Included In OCFA						
Add Position for EOC Management	189,426	193,214	197,078	201,020	205,040	209,141
Hazmat Clean Up (Ocean Blue)	57,000	57,000	57,000	57,000	57,000	57,000
Records Management	13,718	13,718	-	-	-	-
<b>Total Additional Services</b>	<b>260,144</b>	<b>263,932</b>	<b>254,078</b>	<b>258,020</b>	<b>262,040</b>	<b>266,141</b>
Pension Obligation (Pre-OCFA Unfunded Liability)	5,816,364	6,195,177	6,520,806	6,029,900	6,210,798	6,397,122
Retired Medical Premium Contribution	92,641	94,957	97,331	99,764	102,258	104,815
<b>Total Cost for Fire Services with OCFA</b>	<b>31,733,450</b>	<b>32,628,165</b>	<b>33,704,885</b>	<b>34,001,084</b>	<b>34,992,033</b>	<b>36,012,021</b>
City Budget (2.92% Increase)	28,187,290	29,010,359	29,857,461	30,729,299	31,626,595	32,550,091
Fire Dept Revenue	162,365	165,612	168,924	172,303	175,749	179,264
<b>Net Cost of Fire Dept with City</b>	<b>28,024,925</b>	<b>28,844,747</b>	<b>29,688,537</b>	<b>30,556,996</b>	<b>31,450,846</b>	<b>32,370,827</b>
<b>Estimated Savings / (Additional Costs)</b>	<b>(3,708,525)</b>	<b>(3,783,418)</b>	<b>(4,016,348)</b>	<b>(3,444,088)</b>	<b>(3,541,187)</b>	<b>(3,641,194)</b>
Additional Savings: Insurance Premiums	146,410	161,051	177,156	194,872	214,359	235,795
Annual Facility Maintenance Savings	105,000	105,000	105,000	105,000	105,000	105,000
Utilities	99,058	102,030	105,091	108,244	111,491	114,836
One time Sell Off of Fire Equipment	0	0	0	0	0	0
<b>Total Projected Savings / (Additional Costs)</b>	<b>(3,358,057)</b>	<b>(3,415,337)</b>	<b>(3,629,101)</b>	<b>(3,035,973)</b>	<b>(3,110,337)</b>	<b>(3,185,564)</b>



# Cost Analysis (Est. 4.5% Per Year)

23

	FY 2018-19	FY 2019-20	FY 2020-21	FY 2021-22
Annual Contract (4.5%)	22,191,928	23,190,565	24,234,140	25,324,676
Annual Facility Revolving Fund (\$15,000 x 7)	105,000	105,000	105,000	105,000
Equipment Replacement (3% Per OCFA)	295,293	304,152	313,276	322,675
Start - Up (0%, 5 Years, \$1,136,225)	227,245	227,245	227,245	227,245
Capital Improvements Required	357,000	0	0	0
Asbestos Certification	20,740	0	0	0
<b>Total OCFA Estimated Contract Costs</b>	<b>23,197,206</b>	<b>23,826,962</b>	<b>24,879,662</b>	<b>25,979,596</b>
City Continuation of Services Not Included In OCFA				
Add Position for EOC Management	175,000	178,500	182,070	185,711
Hazmat Clean Up (Ocean Blue)	57,000	57,000	57,000	57,000
Records Management	38,718	13,718	13,718	13,718
<b>Total Additional Services</b>	<b>270,718</b>	<b>249,218</b>	<b>252,788</b>	<b>256,429</b>
Pension Obligation (Pre-OCFA Unfunded Liability)	3,545,268	4,189,251	4,672,032	5,284,172
Retired Medical Premium Contribution	83,928	86,026	88,177	90,381
<b>Total Cost for Fire Services with OCFA</b>	<b>27,097,120</b>	<b>28,351,457</b>	<b>29,892,658</b>	<b>31,610,579</b>
City Budget (4.5% Increase)	25,122,000	26,252,490	27,433,852	28,668,375
Fire Dept Revenue (3 Year Average)	150,000	153,000	156,060	159,181
<b>Net Cost of Fire Dept with City</b>	<b>24,972,000</b>	<b>26,099,490</b>	<b>27,277,792</b>	<b>28,509,194</b>
<b>Estimated Savings / (Additional Costs)</b>	<b>(2,125,120)</b>	<b>(2,251,967)</b>	<b>(2,614,866)</b>	<b>(3,101,385)</b>
Additional Savings: Insurance Premiums	100,000	110,000	121,000	133,100
Annual Facility Maintenance Savings	105,000	105,000	105,000	105,000
Utilities	88,012	90,652	93,372	96,173
One time Sell Off of Fire Equipment	190,000	0	0	0
<b>Total Projected Savings / (Additional Costs)</b>	<b>(1,642,108)</b>	<b>(1,946,314)</b>	<b>(2,295,494)</b>	<b>(2,767,111)</b>

# Cost Analysis (cont.)

24

	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	FY 2026-27	FY 2027-28
Annual Contract (4.5%)	26,464,287	27,655,180	28,899,663	30,200,148	31,559,154	32,979,316
Annual Facility Revolving Fund (\$15,000 x 7)	105,000	105,000	105,000	105,000	105,000	105,000
Equipment Replacement (3% Per OCFA)	332,355	342,326	352,595	363,173	374,068	385,290
Start - Up (0%, 5 Years, \$1,136,225)	227,245	0	0	0	0	0
Capital Improvements Required	0	0	-	-	-	-
Asbestos Certification	0	0	-	-	-	-
<b>Total OCFA Estimated Contract Costs</b>	<b>27,128,887</b>	<b>28,102,505</b>	<b>29,357,258</b>	<b>30,668,321</b>	<b>32,038,223</b>	<b>33,469,607</b>
City Continuation of Services Not Included In OCFA						
Add Position for EOC Management	189,426	193,214	197,078	201,020	205,040	209,141
Hazmat Clean Up (Ocean Blue)	57,000	57,000	57,000	57,000	57,000	57,000
Records Management	13,718	13,718	-	-	-	-
<b>Total Additional Services</b>	<b>260,144</b>	<b>263,932</b>	<b>254,078</b>	<b>258,020</b>	<b>262,040</b>	<b>266,141</b>
Pension Obligation (Pre-OCFA Unfunded Liability)	5,816,364	6,195,177	6,520,806	6,029,900	6,210,798	6,397,122
Retired Medical Premium Contribution	92,641	94,957	97,331	99,764	102,258	104,815
<b>Total Cost for Fire Services with OCFA</b>	<b>33,298,035</b>	<b>34,656,571</b>	<b>36,229,473</b>	<b>37,056,005</b>	<b>38,613,320</b>	<b>40,237,684</b>
City Budget (4.5% Increase)	29,958,452	31,306,583	32,715,379	34,187,571	35,726,012	37,333,682
Fire Dept Revenue (3 Year Average)	162,365	165,612	168,924	172,303	175,749	179,264
<b>Net Cost of Fire Dept with City</b>	<b>29,796,087</b>	<b>31,140,971</b>	<b>32,546,454</b>	<b>34,015,268</b>	<b>35,550,263</b>	<b>37,154,418</b>
<b>Estimated Savings / (Additional Costs)</b>	<b>(3,501,948)</b>	<b>(3,515,601)</b>	<b>(3,683,019)</b>	<b>(3,040,737)</b>	<b>(3,063,057)</b>	<b>(3,083,266)</b>
Additional Savings: Insurance Premiums	146,410	161,051	177,156	194,872	214,359	235,795
Annual Facility Maintenance Savings	105,000	105,000	105,000	105,000	105,000	105,000
Utilities	99,058	102,030	105,091	108,244	111,491	114,836
One time Sell Off of Fire Equipment	0	0	0	0	0	0
<b>Total Projected Savings / (Additional Costs)</b>	<b>(3,151,479)</b>	<b>(3,147,520)</b>	<b>(3,295,772)</b>	<b>(2,632,622)</b>	<b>(2,632,207)</b>	<b>(2,627,636)</b>

# Impact on City Services

25

- ▶ Building/Plan Check
- ▶ Increase in Fees for Plan Check and Permits
- ▶ Emergency Coordination
- ▶ Tactical Emergency Medical Support (TEMS)
- ▶ Citizen Emergency Response Team Program (CERT)
- ▶ Community Services
  - ▶ Special Events
  - ▶ Non Profit Event Sponsorships

# QUESTIONS?