City Council

Ida Obeso-Martinez - Mayor
Stacy Mendoza - Mayor Pro-Tem
Katherine Burnworth - Council Member
Robert Amparano - Council Member
James Tucker- Council Member

AGENDA

Regular Meeting of the Imperial City Council

City Council Chambers
220 West 9th Street
Imperial, CA 92251-1637

June 17, 2026
Closed Session at 06:00 pm
Open Session at 07:00 pm

The City Council meetings are live-streamed on the City's Facebook page at www.facebook.com/cityofimperial by remaining in the room, you are giving permission to be recorded.

Public Comments: Members of the public who wish to speak are encouraged to fill out a Speaker Slip and submit it to the City Clerk before the start of the meeting. Public comments are limited to 3 minutes. Comments may also be submitted by email to CityClerk@imperial.ca.gov no later than 5:00 p.m., the day of the meeting.

Americans with Disabilities Act: Requests for special assistance to participate in the meeting, please contact the City Clerk's Office by calling (760) 355-5303 or emailing CityClerk@imperial.ca.gov. Notification of 48 hours before the meeting will enable the city to make reasonable arrangements to ensure accessibility to this meeting [28 CFR 35.102-35.104 ADA title II].

All documents with executive summaries and staff recommendations for open session action items are available on the City's website 72 hours before the meeting www.imperial.ca.gov. Supplemental writing distributed to the City Council within 72 hours of the meeting will also be posted online. Written materials shared during the meeting will be available there if prepared by the city or afterward if prepared by others. These materials can be obtained from the City Clerk's Office.

6:00 P.M. CLOSED SESSION

ROLL CALL

PUBLIC COMMENT FOR CLOSED SESSION ITEMS ONLY: At this time, members of the public may address the City Council on Closed Session items. Pursuant to State Law, the City Council may not discuss or take action on issues not on the meeting agenda (Government Code

Section 54954.2). If you are compensated to communicate with City officials, you may be required to register and/or make certain disclosures as a lobbyist. Please see the City Clerk for additional information. There is a time limit of three (3) minutes for anyone wishing to address the City Council on these matters.

CITY COUNCIL ADJOURNS INTO CLOSED SESSION: The City Council finds, based on advice from the City Attorney, that discussion in open session of the following described matter(s) will prejudice the position of the city in existing and anticipated litigation.

CONFERENCE WITH LEGAL COUNSEL: The City Council finds, based on advice from the City Attorney, that discussion in open session of the following described matter(s) will prejudice the position of the City in existing and anticipated litigation.

CONFERENCE WITH LEGAL COUNSEL - EXISTING LITIGATION (Gov. Code §54956.9(d)(1).) i. City of Imperial vs. Imperial Valley Computer Manufacturing LLC, et al, Imperial County Superior Court Case No ECU004457 ii. Imperial Valley Manufacturing, LLC vs. City of Imperial, United States District Court for the Southern District of California Case No 26CV128 JLS BJW. iii. Novalk, LLC v. City of Imperial et. al, United States District Court for the Southern District of California, 25CV2307 BAS DDL i.v. Schaffer vs. City of Imperial et al Imperial County Superior Court Case No. ECU004772

CONFERENCE WITH LEGAL COUNSEL - ANTICIPATED LITIGATION Initiation of Litigation pursuant to California Government Code section 54956.9(c) : 1 Potential Case Significant exposure to litigation G.C §54956.9 (d)(2): 2 Potential Cases

PUBLIC EMPLOYEE PERFORMANCE EVALUATION (GC 54954.5(e)) Title: City Manager

PUBLIC EMPLOYEE APPOINTMENT G.C.§54957 Title: City Attorney

CONFERENCE WITH LABOR NEGOTIATORS G.C. §54957.6 Agency Representatives: City Manager Employee Organization: Imperial Police Officers Association, Teamsters Local 542 & Employee Organization Management Supervisory, Professional, Confidential, and Police Captain/Unrepresented

7:00 P.M. REGULAR MEETING

CALL TO ORDER

ROLL CALL

PLEDGE OF ALLEGIANCE

ADJUSTMENTS TO THE AGENDA: The City Council may amend the order, add urgency items, note abstentions or “no” votes on consent calendar items, and request consent calendar items be removed from the consent calendar for discussion. The City Council may also remove items from the consent calendar before that portion of the agenda. The City Council may address these issues by entertaining a formal motion.

CITY ATTORNEY REPORT ON CLOSED SESSION

PUBLIC COMMENT: If you wish to address the City Council concerning any item within the City Council's jurisdiction, please raise your hand and be acknowledged by the mayor. At that time, state your name and address for the record. The mayor reserves the right to place a time limit of three (3) minutes on each person's presentation.

A. PRESENTATIONS

A.1. Alzheimer's and Brain Awareness Proclamation presentation.

B. CONSENT AGENDA: All items appearing under the "Consent Agenda" will be acted upon by the City Council with one motion without discussion. Should any council member or other person request that any item be considered separately that item will then be taken up at the time as determined by the mayor.

B.1. Approval of Warrants Report.

B.2. Ratify Sponsor letter regarding SB 675 (Padilla), a measure related to clean air in the Imperial Valley

B.3. Ratify Support letters regarding SB 886: Ratepayer and Technological Innovation Protection Act

B.4. Ratify Support Letter for Reps4Vet in support of its application for the Staff Parker Gordon Fax Suicide Prevention Grant

B.5. Ratify Support letter regarding SB 887: Good Neighbor Data Centers Leadership Project

B.6. 2026 Conflict of Interest Code Biennial Notice

B.7. Authorization to Declare Surplus and Approve Sale and Disposal of Public Services Equipment

B.8. Authorization to reject claim Athens File Number CJP-3056822 as recommended by Athens.

B.9. Establishment of classification, salary range, and job description for Parks and Recreation Manager.

C. PUBLIC HEARING (DISCUSSION/ACTION):

C.1. Authorization to implement the City's Energy Infrastructure Modernization Program and meet the federal incentive deadline.

Presenter: Thomas Garcia, Assistant to the City Manager
Recommended Action: Adopt Resolution 2026-42, AUTHORIZATION FOR IMPLEMENTING THE CITY OF IMPERIAL ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM PURSUANT TO GOVERNMENT CODE SECTION 4217.10-18, MAKING CERTAIN FINDINGS AND AUTHORIZING RELATED ACTIONS and authorize an amendment to the Energy Services Agreement with Climatec (previously approved by Council in November 2025) to now include the detailed scope of work for program implementation.

C.2. Postpone Public Hearing on Levies for Lighting and Landscape Districts to the next regular City Council meeting on July 1, 2026

Presenter: Victor Manriquez, Finance Director
Recommended Action: Adopt Resolution No. 2026-43, AUTHORIZING POSTPONEMENT OF PUBLIC HEARINGS ON LEVIES FOR LIGHTING AND LANDSCAPE DISTRICTS (SKY RANCH, WILDFLOWER AND PASEO DEL SOL) TO THE NEXT REGULAR CITY COUNCIL MEETING ON JULY 1, 2026.

D. ACTION ITEMS (DISCUSSION/ACTION):

D.1. Approve Resolutions for the 2026 General Municipal Election.

Presenter: Dennis H. Morita, City Manager
Recommended Action: Approve and Adopt the following resolutions: Resolution No. 2026-35, CALLING FOR THE HOLDING OF A GENERAL MUNICIPAL ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026 FOR THE ELECTION OF CERTAIN OFFICERS AS REQUIRED BY THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA RELATING TO GENERAL LAW CITIES

Resolution No. 2026-36, REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF IMPERIAL TO CONSOLIDATE A GENERAL MUNICIPAL ELECTION TO BE HELD ON NOVEMBER 3, 2026, WITH THE STATEWIDE GENERAL ELECTION TO BE HELD ON THE DATE PURSUANT TO § 10403 OF THE ELECTIONS CODE

Resolution No. 2026-37, ADOPTING REGULATIONS FOR CANDIDATES FOR ELECTIVE OFFICE PERTAINING TO CANDIDATES STATEMENTS SUBMITTED TO THE VOTERS AT AN ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026

Resolution No. 2026-39, SETTING PRIORITIES FOR FILING A WRITTEN ARGUMENT(S) REGARDING A CITY MEASURE AND DIRECTING THE CITY ATTORNEY TO PREPARE AN IMPARTIAL ANALYSIS

Resolution No. 2026-40, PROVIDING FOR THE FILING OF REBUTTAL ARGUMENTS FOR CITY MEASURES SUBMITTED AT MUNICIPAL ELECTIONS

D.2. Acceptance of Citywide Speed Survey Completed by the Imperial Police Department

Presenter: Aaron Reel, Police Chief
Recommended Action: Accept and approve the citywide speed survey completed by the Imperial Police Department.

D.3. Expenditure Plan and Resolution Accepting the 2024/2025, State Citizen's Option for Public Safety (COPS) Allocation Funding

Presenter: Aaron Reel, Police Chief
Recommended Action: Adopt Resolution No. 2026-27, RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025

Adopt Resolution No. 2026-28, RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025 GROWTH

D.4. Monterrey Park Subdivision No.2 Unit 3C - Phases 68-70 Approval and Acceptance of Off-Site Street Improvements, and authorize Partial Reconveyance to Jupiter Ventures I, LP.

Presenter: Othon Mora, Community Development Director
Recommended Action:

1. Staff recommends approval and acceptance of off-site street improvements of Monterrey Park Subdivision No.2 Unit 3C - Phases 68-70.
2. Staff recommends authorization of Partial Reconveyance regarding Lots 1 to 6 per FM 28-70, Lots 475 to 470 per FM 28-70 and Lots 535 to 530 per FM 28-70 to Jupiter Ventures I, LP.

D.5. Monterrey Park Subdivision No.2 Unit 3C - Phase 71 Approval and Acceptance of Off-Site Street Improvements, and authorize Partial Reconveyance to Jupiter Ventures I, LP.

Presenter: Othon Mora, Community Development Director
Recommended Action:

1. Staff recommends approval and acceptance of off-site street improvements of Monterrey Park Subdivision No.2 Unit 3C - Phase 71.
2. Staff recommends authorization of Partial Reconveyance regarding Lots 476 to 478 per FM 28-70, Lots 527 to 529 per FM 28-70 to Jupiter Ventures I, LP.

D.6. Adoption of the Fiscal Year 2026-2027 Municipal Budget.

Presenter: Victor Manriquez, Finance Director
Recommended Action: Approve and adopt Resolution No. 2026-41 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA APPROVING THE ANNUAL BUDGET FOR THE FISCAL YEAR THAT BEGINS ON JULY 1, 2026, AND ENDS ON JUNE 30, 2027.

E. REPORTS:

- Department Reports
- City Manager Report
- Mayor and Councilmember Reports

ADJOURNMENT: The next regular meeting of the Imperial City Council will be held on July 1, 2026.

CITY OF IMPERIAL BANK: US BANK

Check Number	Check Date	Status	Void/Stop Date	Reconcile Date	Vendor Number	Vendor Name	Check Description	Amount
US BANK Checks								
132871	06/04/26	Printed			735	ACADEMI AWARDS & TROPHIES	8934 87082	307.43
132872	06/04/26	Reconciled		06/09/26	8324	ACCUSOURCEHR, INC	95691 87786	402.83
132873	06/04/26	Printed			195	ALLIED WASTE	TRASH- MAY 2026 87873	189,646.06
132874	06/04/26	Reconciled		06/10/26	5956	AMAZON CAPITAL SERVICES	1YPC-VCJH-R9KF 87080	863.13
132875	06/04/26	Reconciled		06/10/26	6069	BAKER DISTRIBUTING COMPANY LLC	GR87800 87987	203.04
132876	06/04/26	Printed			3763	BERNARD MERCEDES	9721-0050/241 CAHUILLA	31.81
132877	06/04/26	Printed			3395	BLACKMAN PLUMBING INC.	26-70867 88298	353.09
132878	06/04/26	Printed			7158	BLUETARP FINANCIAL, INC.	J96022 88112	61.15
132879	06/04/26	Printed			9079	BRENT RICHARD BELICKI	9968-3072/498 TRESHILL #143	145.99
132880	06/04/26	Printed			2430	CALIFORNIA BUILDING STANDARDS	JAN -MARCH 2026 87680	402.30
132881	06/04/26	Printed			6222	CODE EXXPERTS, LLC	2026-0012 88014	4,111.76
132882	06/04/26	Reconciled		06/08/26	3870	COMMERCIAL AVENUE TRUCK &	COM1-426444 87993	5,277.44
132883	06/04/26	Reconciled		06/10/26	9041	CONSTANGY, BROOKS, SMITH	57583520 87788	1,729.00
132884	06/04/26	Reconciled		06/10/26	1302	DAVID TURCH & ASSOCIATES	JUNE 2026	5,000.00
132885	06/04/26	Printed			8336	ECHO ONE	444 88162	272.00
132886	06/04/26	Reconciled		06/08/26	8740	FERNANDO RUIZ, INC.	173397 87989	1,050.00
132887	06/04/26	Printed			9078	GISELLE URUCHURTU	9928-0941/2300 MYRTLE #79	79.72
132888	06/04/26	Reconciled		06/09/26	7720	GREEN RUBBER-KENNEDY AG	I-110367 88163	38.65
132889	06/04/26	Reconciled		06/10/26	3039	HOLTVILLE TRIBUNE	0102195 87682	144.00
132890	06/04/26	Printed			120	IMPERIAL COUNTY FIRE DEPT.	MARCH 2026 87081	129,576.27
132891	06/04/26	Reconciled		06/10/26	4637	IMPERIAL COUNTY PUBLIC HEALTH	25607 87988	728.00
132892	06/04/26	Printed			028	IMPERIAL IRRIGATION DISTRICT	JUNE 3, 2026	20,493.12
132893	06/04/26	Reconciled		06/09/26	3187	IMPERIAL TRUSS & LUMBER CO.	B85346 88114	319.32
132894	06/04/26	Reconciled		06/08/26	7777	IMPERIAL VALLEY AIR CONDITIONI	6055 87842	9,725.00
132895	06/04/26	Printed			2523	IMPERIAL VALLEY EMPLOYER	MEMBERSHIP 26-27 87791	50.00
132896	06/04/26	Reconciled		06/10/26	6472	INGRAM LIBRARY SERVICES	96482842 87942	15.18
132897	06/04/26	Printed			9082	JENNIFER IZQUIERDO	9939-8025/286 CANON	4.00
132898	06/04/26	Printed			8141	JGC GOVERNMENT RELATIONS, INC.	2168 87084	3,000.00
132899	06/04/26	Printed			7751	JUNIOR'S CAFE INC.	13-20240 87792	610.76
132900	06/04/26	Printed			868	K-C WELDING & RENTALS, INC.	228317 88167	810.38
132901	06/04/26	Reconciled		06/08/26	1647	LA BRUCHERIE IRRIGATION SUPPLY	330112 88164	70.92
132902	06/04/26	Reconciled		06/09/26	1996	LEE TIRE CO.	412488 88020	99.43
132903	06/04/26	Reconciled		06/08/26	3852	LUIS LIZARRAGA	6/18/26 - 6/16/26 DRE TRAINING	129.00
132904	06/04/26	Printed			9077	MARIE HISEL	9520-0280/194 SAMPSON	25.00
132905	06/04/26	Printed			9081	MARTIN URBINA	9964-0990/619 N E	33.35
132906	06/04/26	Reconciled		06/09/26	1190	MISSIONSQUARE - 304257	5/29/26	441.40
132907	06/04/26	Printed			8669	NAPA AUTO PARTS	574735 88165	36.30
132908	06/04/26	Reconciled		06/10/26	6127	NORMAN A. TRAUB ASSOCIATES	26004 87789	6,444.89
132909	06/04/26	Printed			9080	OLGA CONTRERAS	9992-0962/218 W 3RD #102	64.18
132910	06/04/26	Reconciled		06/04/26	9000	PETER NGUYEN	MAY 2026 87793	6,307.84
132911	06/04/26	Printed			084	PITNEY BOWES BANK INS	21257183 6/2/26 87875	600.00
132912	06/04/26	Printed			3179	PITNEY BOWES GLOBAL FINANCIAL	3107918051 87872	521.53
132913	06/04/26	Printed			8516	QUICK QUACK CAR WASH	ARB266162 87874	246.87
132914	06/04/26	Reconciled		06/10/26	3786	RINGCENTRAL INC	CD_001446911 88019	1,426.38
132915	06/04/26	Reconciled		06/09/26	979	SELLERS PETROLEUM	CL50940	21,676.83
132916	06/04/26	Printed			8808	SPEARUS LLC	INV-2938 87275	259,468.33

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Check Number	Check Date	Status	Void/Stop Date	Reconcile Date	Vendor Number	Vendor Name	Check Description	Amount
US BANK Checks								
132917	06/04/26	Printed			1934	TYLER TECHNOLOGIES, INC.	045-564617 88024	700.00
132918	06/04/26	Printed			6883	ULINE	208176630 87809	520.77
132919	06/04/26	Printed			275	UNDERGROUND SERVICE ALERT OF	25-263968 87869	215.52
132922	06/04/26	Reconciled		06/08/26	615	VALLEY PEST SERVICES, INC	14362099	1,515.00
132923	06/04/26	Reconciled		06/10/26	8150	VENCER PUBLIC AFFAIRS &	402 87085	2,000.00
132924	06/04/26	Reconciled		06/10/26	2081	VESTIS GROUP, LLC	MAY 28, 2026	3,664.31
132925	06/04/26	Reconciled		06/09/26	5674	WAGEWORKS, INC	INV8860940 MAR 2026 87785	304.00
132926	06/04/26	Printed			1715	WAXIE SANITARY SUPPLY	83937921 87841	1,139.23
					Total Checks:	**54**	**Checks Total (excluding void checks):**	**683,102.51**
					Total Payments:	**54**	**Bank Total (excluding void checks):**	**683,102.51**
					Total Payments:	**54**	**Grand Total (excluding void checks):**	**683,102.51**

CITY COUNCIL
Ida Obeso-Martinez – Mayor
Stacy Mendoza – Mayor Pro-Tem
Katie Burnworth – Councilmember
Robert Amparano – Councilmember
James Tucker – Councilmember

CITY CLERK
Kristina M. Shields

CITY MANAGER
Dennis H. Morita

CITY ATTORNEY
Katherine Turner

June 1, 2026

Assembly Member Issac Bryan
Chair, Assembly Natural Resources Committee
State Capitol, Room
Sacramento, CA 95814

SB 675 (Padilla) – Sponsor
Set for Hearing on June 8th

Dear Assembly Member Bryan,

The City of Imperial is pleased to sponsor SB 675 (Padilla), a measure related to clean air in the Imperial Valley.

Residents of the Imperial Valley continually deal with poor air quality. As ranked by the American Lung Association, the Imperial Valley receives an F grade for ozone as well as an F grade for 24hr particle pollution, and ranks in the top 15 metro areas nationwide in these categories. Additionally, Fresno and Imperial Counties consistently record the highest asthma rates in the state. Fresno has the highest pediatric asthma emergency rates, while Imperial County frequently tops both lifetime and current asthma prevalence metrics. This poor air quality directly impacts the residents of the City of Imperial. Attempting to get information about the sources of this high pollution is difficult, and residents feel disconnected from oversight of pollution sources given the current structure of the Imperial County Air Pollution Control District (ICAPCD) Board. SB 675 proposes to restructure the ICAPCD to address these concerns by including a broader representation of community interests on the ICAPCD Board. This measure will ensure greater accountability and public access to information by requiring the ICAPCD to post critical pollution information on its website in a manner that is easily accessible by the public.

Specifically, SB 675 will restructure the governing board of the ICAPCD from the current makeup of 5 county supervisors and replace it with 10 board members representing the county, cities in the valley, and community members that have relevant expertise – 1 county representative, 5 city representatives, a representative with a medical background, a representative with an environmental justice background, a representative with an understanding of labor issues and worker health and safety, and a member with a background in agricultural practices. All members will need to be residents of the County. SB 675 also addresses

transparency issues by requiring the district to post to its website information on all current permits, pending applications, as well as enforcement actions. Additionally, detailed budget information for the district will need to be publicly available as well.

As a region that is severely impacted by poor air quality, the Imperial Valley needs an air district that is open and transparent, and provides a broad spectrum of representation to improve air quality for the region's residents. For these reasons, the City of Imperial urges your support of SB 675.

Sincerely,

Ida S. Obeso Martinez

Ida Obeso-Martinez
Mayor, City of Imperial

CITY COUNCIL
Ida Obeso-Martinez – Mayor
Stacy Mendoza – Mayor Pro-Tem
Katie Burnworth – Councilmember
Robert Amparano – Councilmember
James Tucker – Councilmember

CITY CLERK
Kristina M. Shields

CITY MANAGER
Dennis H. Morita

CITY ATTORNEY
Katherine Turner

June 3, 2026

The Honorable Isaac G. Bryan
Chair, Natural Resources
1020 N Street, Room 164
Sacramento, CA 95814

Re: Senate Bill 886: Ratepayer and Technological Innovation Protection Act

Dear Assembly Member Bryan,

On behalf of the City of Imperial, I am pleased to offer our strong support of SB 886 which would require the PUC to develop a tariff for large energy users.

The City of Imperial is a rapidly growing community at the heart of the Imperial Valley. As a regional hub for critical infrastructure and facilities, including the Imperial County Airport, the Imperial Irrigation District, and the Imperial Valley Expo, home to the California Mid-Winter Fair & Fiesta. Imperial depends on a reliable, affordable, and forward-looking energy system. With a population of just over 22,000 residents and ranking among the top ten fastest-growing cities in California, while also being recognized as one of the safest, the City has a strong interest in policies like SB 886 that protect ratepayers, support responsible growth, and ensure energy infrastructure investments are equitable and sustainable.

The AI boom is powered by massive data centers which consume large amounts of energy and water 24/7. This puts an enormous strain on the electrical grid and requires massive investments into transmission infrastructure. Many states are seeing the surging demand for energy from data centers which are forcing them to increase the energy supply as quickly as possible, often utilizing fossil fuel power plants to meet the demand. The Department of Energy reports data centers are expected to consume 12% of total US electricity by 2028, nearly three times the 2023 electricity demand of 4.4%.

These high energy demands strain California's aging transmission grid and threaten California's aggressive clean energy and climate goals. Incentivizing clean energy adoption and establishing a special rate structure in this rapidly growing space is necessary to protect ratepayers from footing the bill as utilities are racing to build transmission infrastructure. Moreover, a report by Wood MacKenzie in the New York Times found large energy users did not pay enough to cover the full cost of interconnection, other customers had to make up for it. The current rapid buildout

of data centers along with innovations in energy efficiency increase the possibility that data centers shut down early. PJM, the grid operator for much of the east coast has seen the average energy bill to jump 5% in a year. Three PJM states, one of which is Virginia, the state with the highest concentration of data centers, saw rates rise 11-16%. Without protections, other ratepayers will be forced to pay for their cost of interconnection. California must take steps to protect ratepayers from bearing the brunt of the financial burden.

SB 886 would require the Public Utilities Commission (PUC) to establish a special tariff to protect other ratepayers from transmission costs that supply large load customers. The PUC must also consider prioritized interconnection for large load customers utilizing zero carbon resources. The tariff will ensure electrical grid investments for data centers are fully recovered to ensure other ratepayers do not end up footing the bill. This will ensure ratepayers do not have skyrocketing costs without increasing the state's reliance on fossil fuels.

City of Imperial finds that SB 886 promotes fairness, grid reliability, and responsible development by ensuring that large energy users bear the true costs of the infrastructure required to serve them. By preventing cost shifts onto residential customers, small businesses, and local governments, the bill protects ratepayer equity, particularly in rural and disadvantaged communities that often host transmission infrastructure without receiving proportional benefits. Establishing a clear tariff and interconnection framework provides greater planning certainty for utilities, reduces the risk of stranded assets from speculative or short-lived projects, and strengthens long-term grid reliability.

For these reasons, SB 886 (Padilla) would further the City of Imperial's goal of promoting equitable infrastructure investment, protecting local ratepayers, and supporting California's clean energy initiative, and we are proud to support SB 886 (Padilla)/and encourage your "aye" vote when it is heard in your committee.

Sincerely,

Ida Obeso-Martinez
Mayor
City of Imperial

CITY COUNCIL
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CITY CLERK
Kristina M. Shields

CITY MANAGER
Dennis H. Morita

CITY ATTORNEY
Katherine Turner

June 3, 2026

The Honorable Cottie Petrie-Norris
Chair, Assembly Utilities and Energy Committee
1020 N Street, Suite 121
Sacramento, CA 95814

Re: Senate Bill 886: Ratepayer and Technological Innovation Protection Act

Dear Assembly Member Petrie-Norris:

On behalf of the City of Imperial, I am pleased to offer our strong support of SB 886 which would require the PUC to develop a tariff for large energy users.

The City of Imperial is a rapidly growing community at the heart of the Imperial Valley. As a regional hub for critical infrastructure and facilities, including the Imperial County Airport, the Imperial Irrigation District, and the Imperial Valley Expo, home to the California Mid-Winter Fair & Fiesta. Imperial depends on a reliable, affordable, and forward-looking energy system. With a population of just over 22,000 residents and ranking among the top ten fastest-growing cities in California, while also being recognized as one of the safest, the City has a strong interest in policies like SB 886 that protect ratepayers, support responsible growth, and ensure energy infrastructure investments are equitable and sustainable.

The AI boom is powered by massive data centers which consume large amounts of energy and water 24/7. This puts an enormous strain on the electrical grid and requires massive investments into transmission infrastructure. Many states are seeing the surging demand for energy from data centers which are forcing them to increase the energy supply as quickly as possible, often utilizing fossil fuel power plants to meet the demand. The Department of Energy reports data centers are expected to consume 12% of total US electricity by 2028, nearly three times the 2023 electricity demand of 4.4%.

These high energy demands strain California's aging transmission grid and threaten California's aggressive clean energy and climate goals. Incentivizing clean energy adoption and establishing a special rate structure in this rapidly growing space is necessary to protect ratepayers from footing the bill as utilities are racing to build transmission infrastructure. Moreover, a report by Wood MacKenzie in the New York Times found large energy users did not pay enough to cover the full cost of interconnection, other customers had to make up for it. The current rapid buildout

of data centers along with innovations in energy efficiency increase the possibility that data centers shut down early. PJM, the grid operator for much of the east coast has seen the average energy bill to jump 5% in a year. Three PJM states, one of which is Virginia, the state with the highest concentration of data centers, saw rates rise 11-16%. Without protections, other ratepayers will be forced to pay for their cost of interconnection. California must take steps to protect ratepayers from bearing the brunt of the financial burden.

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City of Imperial finds that SB 886 promotes fairness, grid reliability, and responsible development by ensuring that large energy users bear the true costs of the infrastructure required to serve them. By preventing cost shifts onto residential customers, small businesses, and local governments, the bill protects ratepayer equity, particularly in rural and disadvantaged communities that often host transmission infrastructure without receiving proportional benefits. Establishing a clear tariff and interconnection framework provides greater planning certainty for utilities, reduces the risk of stranded assets from speculative or short-lived projects, and strengthens long-term grid reliability.

For these reasons, SB 886 (Padilla) would further the City of Imperial's goal of promoting equitable infrastructure investment, protecting local ratepayers, and supporting California's clean energy initiative, and we are proud to support SB 886 (Padilla)/and encourage your "aye" vote when it is heard in your committee.

Sincerely,

Ida G. Obeso Martinez

Ida Obeso-Martinez
Mayor
City of Imperial

CITY COUNCIL
Ida Obeso-Martinez – Mayor
Stacy Mendoza – Mayor Pro-Tem
Katie Burnworth – Councilmember
Robert Amparano – Councilmember
James Tucker – Councilmember

CITY CLERK
Kristina M. Shields

CITY MANAGER
Dennis H. Morita

CITY ATTORNEY
Katherine Turner

June 10, 2026

U.S. Department of Veterans Affairs
P.O. Box 21633
Falls Church VA 22037

Re: Staff Sergeant Parker Gordon Fox Suicide Prevention Grant

To Whom It May Concern,

It is my honor to provide this letter of support for Reps 4 Vets and its Founder and Director, Brendon Brown, in support of their application for federal funding to continue and expand critical suicide prevention and wellness services for veterans in Imperial County.

As Mayor of the City of Imperial, I have witnessed firsthand the positive impact Reps 4 Vets has had throughout our community. Their organization has become a trusted resource for veterans who are struggling with mental health challenges, substance abuse, isolation, homelessness, and the difficult transition back into civilian life. Through a unique combination of peer mentorship, fitness, optional faith-based encouragement, accountability, and connection to vital community resources, Reps 4 Vets has created a program that reaches veterans who may otherwise never seek help.

Imperial County is a rural and underserved region with a significant veteran population and limited access to immediate mental health and support services. Reps 4 Vets fills a critical gap by providing a welcoming and stigma-free environment where veterans feel understood, supported, and empowered to rebuild their lives. Their work has directly contributed to suicide prevention efforts and has positively impacted countless veterans and their families across our region.

In addition to their wellness programming, Reps 4 Vets has demonstrated strong collaboration with local agencies, behavioral health providers, veteran service organizations, housing assistance programs, schools, and community partners. Their commitment to coordinated care and long-term stability for veterans reflects the type of community-centered leadership that is urgently needed.

Brendon Brown's leadership, personal experience as a combat veteran, and unwavering dedication to serving others have made Reps 4 Vets a respected and valued organization within Imperial County. His ability to connect with veterans through lived experience and mentorship has helped build trust with individuals who are often hesitant to engage in traditional systems of care.
I strongly support Reps 4 Vets' efforts to secure funding that will allow them to expand their outreach, suicide prevention services, wellness programming, and supportive resources for veterans in our community. I firmly believe their continued work will save lives, strengthen families, and improve the overall well-being of veterans throughout Imperial County.

Thank you for your consideration and for your commitment to supporting organizations that serve those who have sacrificed for our nation.

Sincerely,

Ida Obeso-Martinez
Mayor
City of Imperial

CITY COUNCIL
Ida Obeso-Martinez – Mayor
Stacy Mendoza – Mayor Pro-Tem
Katie Burnworth – Councilmember
Robert Amparano – Councilmember
James Tucker – Councilmember

CITY CLERK
Kristina M. Shields

CITY MANAGER
Dennis H. Morita

CITY ATTORNEY
Katherine Turner

June 3, 2026

The Honorable Cottie Petrie-Norris
Chair, Assembly Utilities and Energy Committee
1020 N Street, Suite 121
Sacramento, CA 95814

Re: Senate Bill 887: Good Neighbor Data Centers Leadership Project

Dear Assembly Member Petrie-Norris:

On behalf of the City of Imperial, I am pleased to offer our strong support of SB 887 which would clarify that data centers are not ministerial projects exempt from CEQA and allow data centers to be eligible for Environmental Leadership Development Project (ELDP) certification if it meets the criteria as well as some additional requirements specific to data centers regarding water use, clean energy, and paying full infrastructure costs.

The City of Imperial is a rapidly growing community at the heart of the Imperial Valley. As a regional hub for critical infrastructure and facilities, including the Imperial County Airport, the Imperial Irrigation District, and the Imperial Valley Expo, home to the California Mid-Winter Fair & Fiesta. The City has a strong interest in responsible development that supports economic growth while protecting public health, natural resources, and community well-being.

The AI boom is powered by massive data centers which consume large amounts of energy and water 24/7. Many states are seeing the surging demand for energy from data centers which are forcing them to increase the energy supply as quickly as possible, often utilizing fossil fuel power plants to meet the demand. The Department of Energy reports data centers are expected to consume 12% of total US electricity by 2028, nearly three times the 2023 electricity demand of 4.4%.

Data centers run 24/7, requiring backup generators in the event of a power outage. The backup generators often utilize diesel or other fossil fuels, estimated to create public health costs of more than 5.4 billion dollars from air pollution, linking these facilities to cancer, asthma, and other health issues. Between the years 2019 and 2023, the healthcare costs of data centers surged from 44.68 to 155.44 million. Unless these data centers utilize clean energy, the public health impacts of data centers will dramatically increase.

Data centers also need large amounts of water to cool the systems and prevent overheating. While waterless methods for cooling exist, the industry is not adopting waterless cooling due to energy costs. Developers have focused siting data centers where they can get the fastest interconnection and cheapest electricity rate, and water usage has not been a central consideration. In California, researchers found water consumption by data centers doubled between 2019-2023, equaling 49.9 billion liters. The water shortages caused by data center development is being felt across the US and exacerbates drought conditions, and these issues will continue as 40% of new data centers are located in areas of high or extremely high water stress. Absent rational standards, the rapid expansion of data centers presents one of the nation's largest energy and environmental challenges.

SB 887 would state data centers are not ministerial projects exempt from CEQA and do not qualify as an advanced manufacturing facility. Data centers would be eligible for ELDP certification if they meet additional requirements on water use, clean energy, and infrastructure costs. This would grant data centers an accelerated CEQA litigation procedure, allowing data center to be built faster and protecting surrounding communities from health and environmental impacts.

The City finds that SB 887 provides clarity and consistency for local governments by establishing clear standards for how data centers are reviewed and approved, reducing uncertainty and litigation risk while preserving meaningful environmental oversight. By affirming that data centers are subject to CEQA review yet offering an expedited pathway for projects that meet higher environmental performance standards, the bill encourages responsible development without sacrificing public health or environmental protections. This balanced approach ensures that economic growth proceeds in a manner that is transparent, sustainable, and aligned with California's long-term energy, water, and climate objectives.

For these reasons, SB 887 (Padilla) would further the City of Imperial's goal of promoting responsible economic development, safeguarding limited water resources, protecting public health, and ensuring that growth does not come at the expense of local communities, and we are proud to support SB 887 (Padilla)/and encourage your "aye" vote when it is heard in your committee.

Sincerely,

Ida Obeso-Martinez
Mayor
City of Imperial

City Council
STAFF REPORT
Document ID: 2026-325
Category: Consent Item

Department: Human Resources

Department Head: Kristen Smith, Human Resources Director

Meeting Date: June 17, 2026

SUBJECT:

2026 CONFLICT OF INTEREST CODE BIENNIAL NOTICE

BACKGROUND:

The Political Reform Act requires local agencies to adopt a Conflict of Interest Code, setting forth disclosure requirements for various public office and employee positions. State law also requires the City to conduct a biennial review of its Conflict of Interest Code and make revisions as appropriate.

The code reviewing body (City Council) must notify the agency (City of Imperial) to review their conflict of interest codes by July 1, 2026.

Upon review, should any conflict of interest code require changes, notification that amendments are needed will be submitted to the City Council by October 1, 2026. Any changes to the code must be approved by City Council within 90 days of notification.

FISCAL IMPACT:

There is no fiscal impact associated with this action.

REQUESTED ACTION:

Staff recommends the City Council direct staff to complete the 2026 Local Agency Biennial Notice and begin review of the City's Conflict of Interest Code to determine if an amendment is required.

CITY MANAGER RECOMMENDATION:

Attachments:

1. 2026 Conflict of Interest Code Biennial Notice Instructions for Local Agencies

FAIR POLITICAL PRACTICES COMMISSION

2026 Conflict of Interest Code
Biennial Notice Instructions for Local Agencies

The Political Reform Act requires every local government agency to review its conflict of interest code biennially. A conflict of interest code tells public officials, governmental employees, and consultants what financial interests they must disclose on their Statement of Economic Interests (Form 700).

By **July 1, 2026:** The code reviewing body must notify agencies and special districts within its jurisdiction to review their conflict of interest codes.

By **October 1, 2026:** The biennial notice must be filed with the agency's code reviewing body.

The FPPC has prepared a 2026 Local Agency Biennial Notice form for local agencies to complete or send to agencies within its jurisdiction to complete before submitting to the code reviewing body. The City Council is the code reviewing body for city agencies. The County Board of Supervisors is the code reviewing body for county agencies and any other local government agency whose jurisdiction is determined to be solely within the county (e.g., school districts, including certain charter schools). The FPPC is the code reviewing body for any agency with jurisdiction in ***more than one county*** and will contact them.

The Local Agency Biennial Notice is not forwarded to the FPPC.

If amendments to an agency's conflict of interest code are necessary, the amended code must be forwarded to the code reviewing body for approval within 90 days. An agency's amended code is not effective until it has been approved by the code reviewing body.

If you answer yes, to any of the questions below, your agency's code probably needs to be amended.

- Is the current code more than five years old?
- Have there been any substantial changes to the agency's organizational structure since the last code was approved?
- Have any positions been eliminated or re-named since the last code was approved?
- Have any new positions been added since the last code was approved?
- Have there been any substantial changes in duties or responsibilities for any positions since the last code was approved?

If you have any questions or are still not sure if you should amend your agency's conflict of interest code, please contact the FPPC. Additional information including an online webinar regarding how to amend a conflict of interest code is available on FPPC's website.

City Council

STAFF REPORT

Document ID: 2026-350
Category: Consent Item

Department: Public Services

Department Head: Jenell Guerrero, Interim Public Services Director

Meeting Date: June 17, 2026

SUBJECT:

AUTHORIZATION TO DECLARE SURPLUS AND APPROVE SALE AND DISPOSAL OF PUBLIC SERVICES EQUIPMENT

BACKGROUND:

A review and condition assessment of equipment at the Public Services Yard identified several assets that are no longer beneficial for ongoing operations and maintenance activities. These items have either reached the end of their expected service life, been replaced by more suitable and practical equipment, or are no longer compatible with current operational needs or practices.

Staff is requesting authorization to declare the identified equipment as surplus property. Usable items with resale value will be sold, while items determined to have no practical use or resale value will be disposed of in accordance with applicable regulations and City policies.

FISCAL IMPACT:

None

REQUESTED ACTION:

Authorize the declaration of identified equipment as surplus property and approve the sale and/or disposal of such items.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Streets Surplus List

Seal Master Machine

Crack Pro Machine

Tank and Trailer

Utility Truck Toolboxes

Trailer

PCMS Board x2

Totes of Old Street Signs x 2

City Council
STAFF REPORT
Document ID: 2026-355
Category: Consent Item

Department:	Human Resources
Department Head:	Kristen Smith, Human Resources Director
Meeting Date:	June 17, 2026

SUBJECT:

AUTHORIZATION TO REJECT CLAIM ATHENS FILE NUMBER CJP-3056822 AS RECOMMENDED BY ATHENS.

BACKGROUND:

Recommendation from Athens to reject claim Athens File Number CJP-3056822 submitted by Arcelia Nubes on June 5, 2026.

FISCAL IMPACT:

There is no fiscal impact associated with this action.

REQUESTED ACTION:

Staff recommends approval to reject claim.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Claim - Nubes, Arcelia_Redacted

RECEIVED
JUN 08 2026
City Clerk
By

RECEIVED
JUN 5 26
Initial: MGM

CLAIM FOR DAMAGE OR INJURY
AGAINST THE CITY OF IMPERIAL, CALIFORNIA

Claims for death, injury to person, or to personal property must be filed not later than six months after the occurrence. (Gov. Code, Sec. 911.2)

Claims for damages to real property must be filed not later than 1 year after the occurrence. (Gov. Code, Sec. 911.2)

TO: City of Imperial
420 So. Imperial Ave.
Imperial, CA 92251

Arcelia Nubes [redacted]
Name of Claimant | Address | Zip | Phone | Age

[redacted]
Address to which Claimant wishes notices sent

WHEN did damage or injury occur? Wednesday June 3

WHERE did damage or injury occur? City of imperial P street and First

HOW and under what circumstances did damage or injury occur? I was driving on P street and I fell in a pot hole damaging my wheel and tire beyond repair.

WHAT particular action by the City, or its employees, caused the alleged damage or injury? (Include Names of Employees, if known)

The city not repairing or maintaining the streets.

WHAT sum do you claim? Include the estimated amount of any prospective loss, insofar as it may be known at the time of the presentation of this claim, together with the basis of computation of the amount claimed: (Attach estimates or bills, if possible)

wheel
$ 1,078.96
Tire
$ 610.70

Total Amount Claimed $ 1,689.16

$

NAMES and addresses of witnesses, Doctors and Hospitals:

[redacted]

Signature of Claimant

06/05/06
Date

IMPERIAL VALLEY
CHEVROLET GMC

www.ivgm.com
602 WAKE AVE. · EL CENTRO, CA 92243
FAX (760) 482-3299

WHOLESALE (760) 482-3282

INSTALLED ITEMS ARE NON-RETURNABLE!
ALL WARRANTY CLAIMS OR RETURNS MUST BE ACCOMPANIED BY THIS INVOICE. RETURNS ARE SUBJECT TO A 35% RESTOCKING FEE. AN ADDITIONAL 10% REPACKING CHARGE MAY BE ASSESSED FOR RETURNS WITH TORN, DAMAGED, OR INCOMPLETE PACKAGING. NO RETURNS WILL BE ACCEPTED AFTER 30 DAYS FROM THE INVOICE DATE BELOW.

DISCLAIMER OF WARRANTIES

Any warranties on the product sold hereby are those made by the manufacturer. The seller hereby expressly disclaims all warranties, either express or implied, including any implied warranty of merchantability or fitness for a particular purpose, and the seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of said products.

DATE ENTERED	YOUR ORDER NO.	DATE SHIPPED	INVOICE DATE	INVOICE NUMBER
03 JUN 26		03 JUN 26		Q241808 14:00

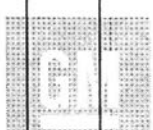
QUOTE

SOLD TO
ACCOUNT NO. 20
CASH TAXABLE
NONE
EL CENTRO, CA 92243

SHIP TO

SHIP VIA	SLSM.	B/L NO.	TERMS	F.O.B. POINT
	3044		CASH	EL CENTRO CA

QUANTITY ORD.	QUANTITY SHIP	QUANTITY B.O.	PART NO.	DESCRIPTION	LIST	NET	AMOUNT
1	1	0	23376234	300 WHEEL	950.08	950.08	950.08
			CORE DEPOSIT			50.00	50.00
			**** I N V O I C E Q U O T E - DO NOT PAY ****				



Thank You For Your Business!

ATTENTION CUSTOMER:
Your signature below indicates that you understand that ELECTRICAL and/or SPECIAL ORDER parts are "NOT" returnable.... Thank you, Management

CUSTOMER'S SIGNATURE
X

PARTS	1,000.08
SUBLET	
FREIGHT	0.00
SALES TAX	78.38
TOTAL	$1,078.46

Copyright 2015 CDK Global, LLC PARTS INVOICE 11.00_PI3C1 - IMAGING

CUSTOMER COPY

DISCOUNT TIRE

Price Quote
Expires: 07-03-2026

06/03/26
03:36 PM
SALES ORDER# 5075678478
ORDER TYPE: STORE_ORDER

ARTICLE#	AXLE	DESCRIPTION	FET	PRICE	QTY	AMOUNT
		THIS IS NOT A SALES RECEIPT				
SALE 157591	B	LT275 /50 R22 119S E1 RBL BFG ALL TERRAIN T/A K03		$460.00	1	$460.00
TIRE MILEAGE WARRANTY: 50000						
		Recommended Tire Pressure: 50 psi				
86607	B	DIL DIL VS950 TPMS RBK VALVE KIT VS950		$0.00	1	$0.00
80017	B	CERTIFICATES FOR REFUND, REPLACEMENT		$83.00	1	$83.00
For tire certificate details, see www.discounttire.com/customer - service/certificates						
80224	B	WASTE TIRE DISPOSAL FEE		$4.00	0	$0.00
80075	B	STATE REQUIRED TIRE FEE		$1.75	1	$1.75
91123	B	INSTALLATION & LIFE OF TIRE MAINTENANCE		$28.00	1	$28.00

When replacing less than four tires, Discount Tire recommends that the new tires will be placed on the rear axle of the vehicle.

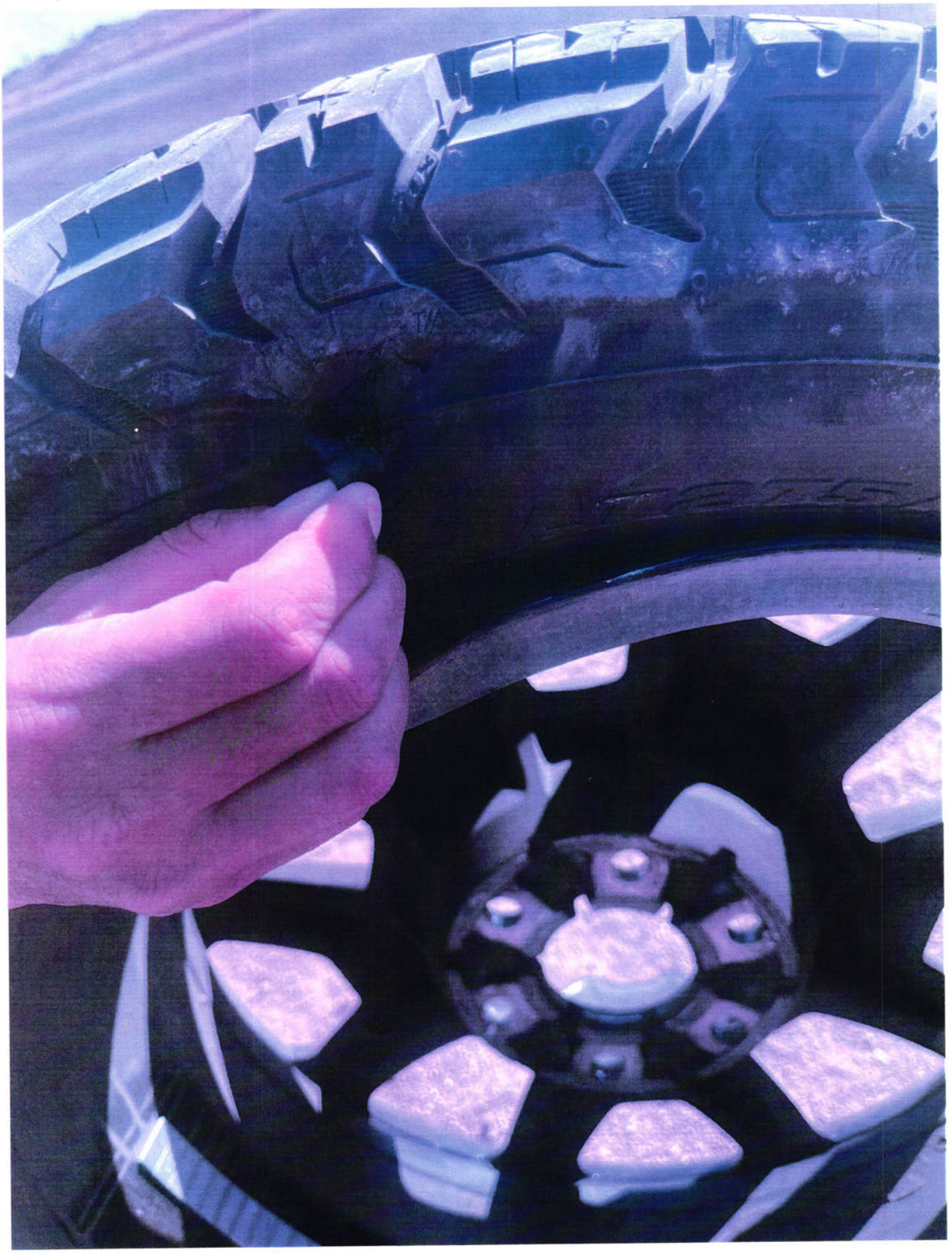
The tire and/or wheel you have chosen is different from the original equipment provided with your vehicle and may change its handling or stability characteristics. Further information is available from your Discount Tire salesperson.

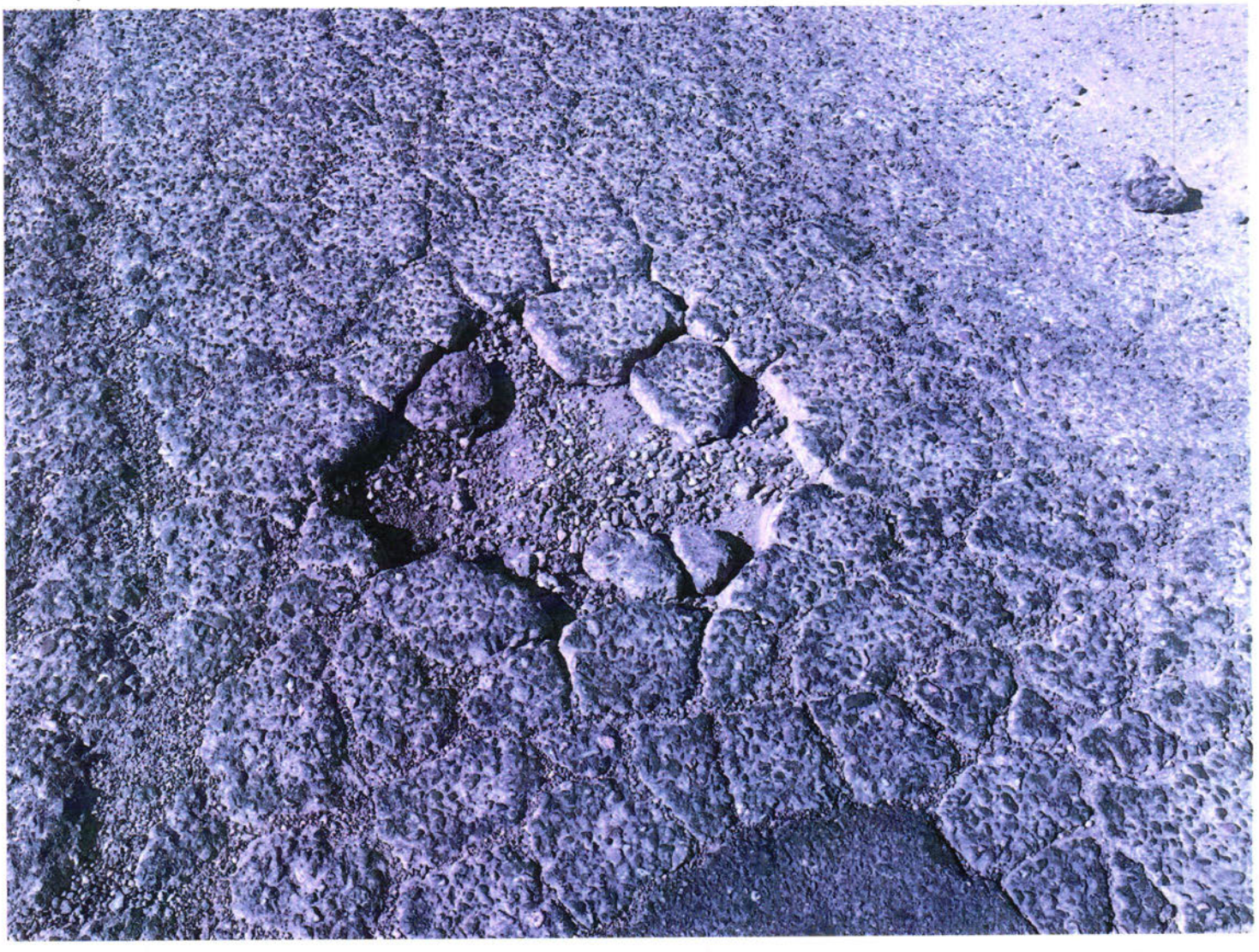
SUB TOTAL	$572.75
SALES TAXES	$37.95
SALES TOTAL	$610.70
BALANCE DUE	$0.00

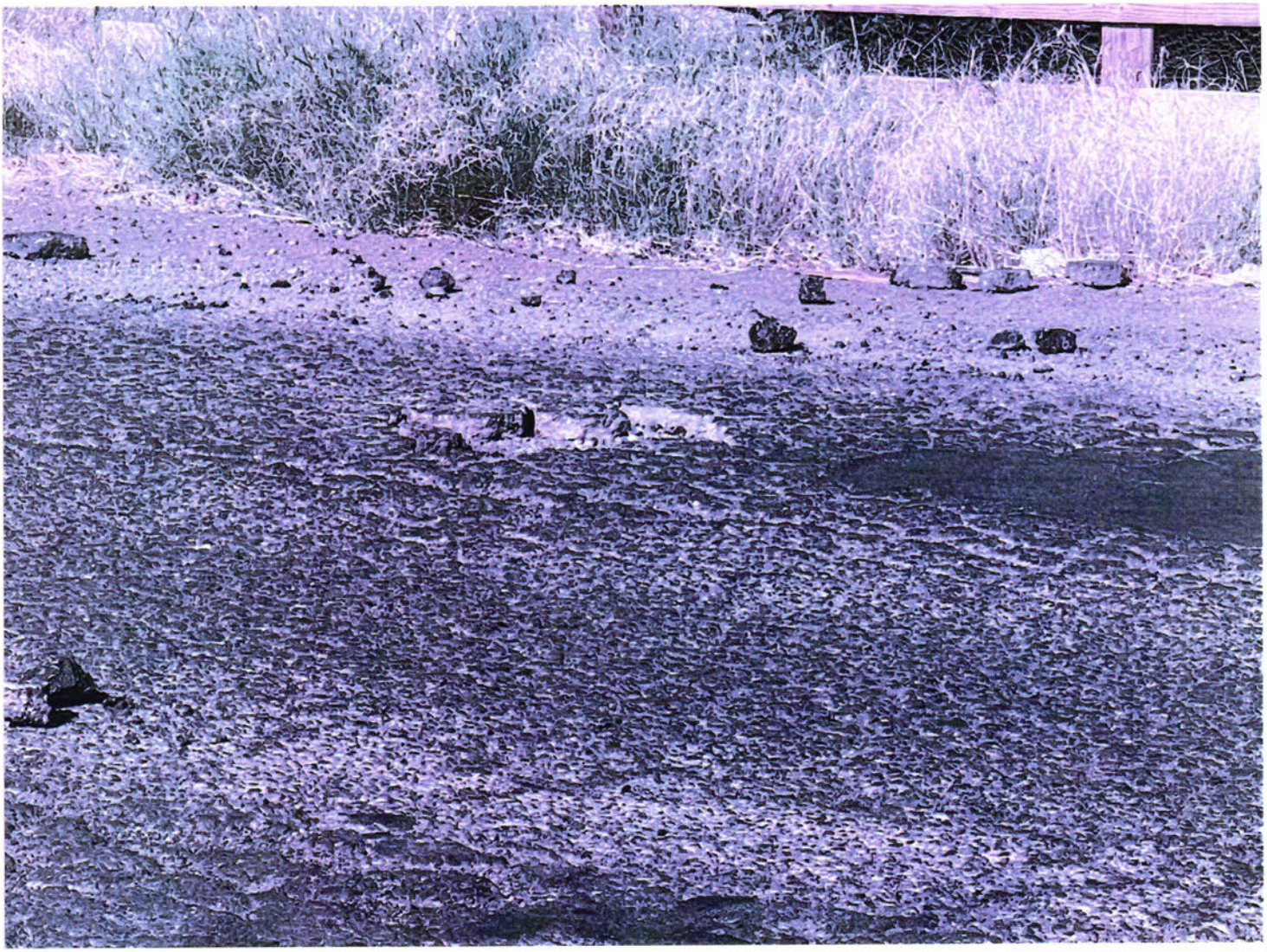
FREE CUSTOMER FLAT REPAIR AND ROTATION
THANK YOU FOR SHOPPING DISCOUNT TIRE CO.

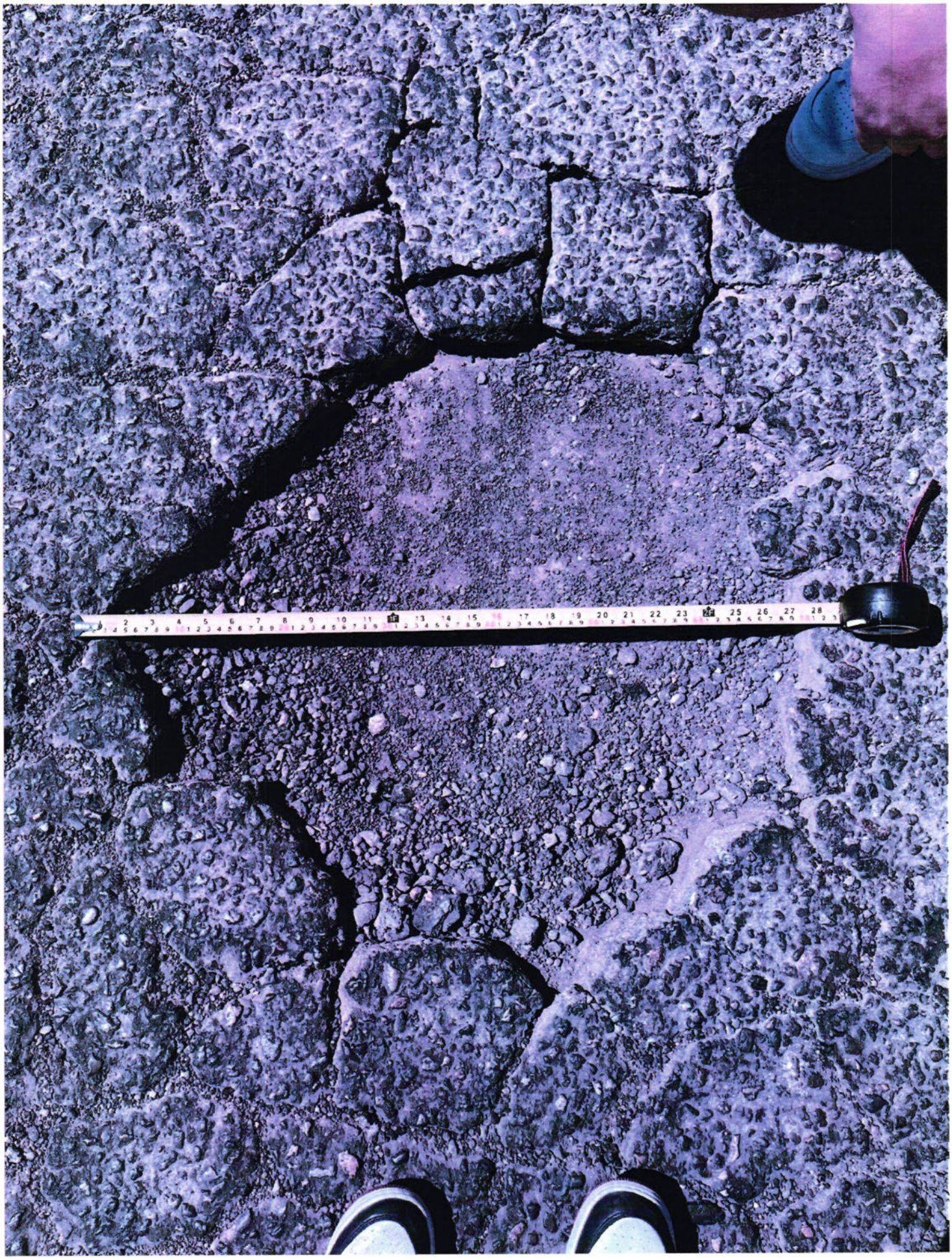
Salesman's Signature

Date	Time	Store	Reg	Emp	Txn
06/03/26	03:36 PM	1841	3	601437	0115

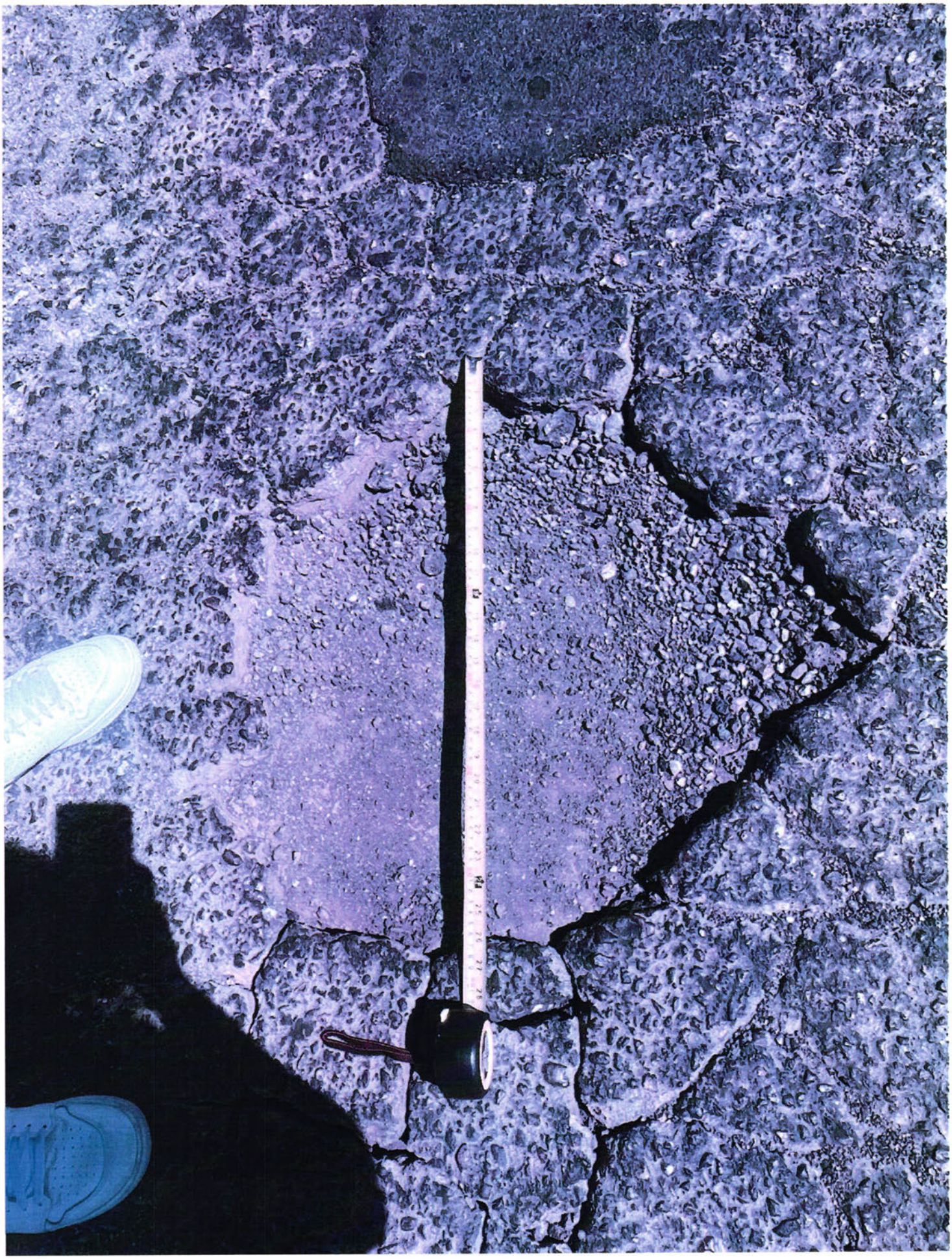


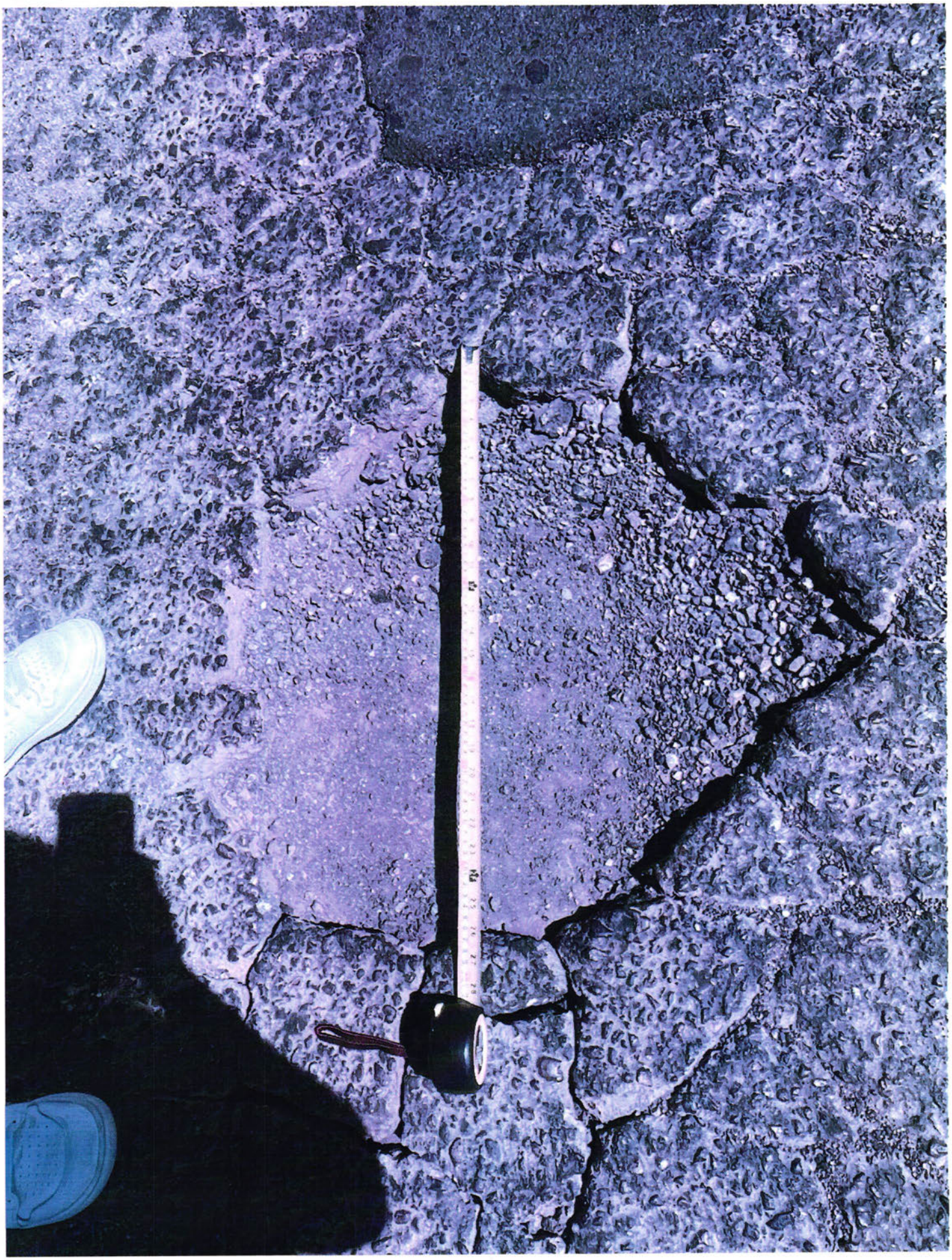






1st ST
P ST





City Council

STAFF REPORT

Document ID: 2026-356
Category: Consent Item

Department:	Human Resources
Department Head:	Kristen Smith, Human Resources Director
Meeting Date:	June 17, 2026

SUBJECT:

ESTABLISHMENT OF CLASSIFICATION, SALARY RANGE, AND JOB DESCRIPTION FOR PARKS AND RECREATION MANAGER.

BACKGROUND:

Staff recommends the City Council approve and adopt the creation of a new classification, job description and salary range for Parks and Recreation Manager.

FISCAL IMPACT:

This position has been included in the Fiscal Year 2026-2027 budget.

REQUESTED ACTION:

Recommendation to establish a new classification, salary range and job description for Parks and Recreation Manager.

CITY MANAGER RECOMMENDATION:

Attachments:

1. City of Imperial Parks and Recreation Manager Job Description - Pending CC Approval 06-17-26
2. Revised Salary Schedule - Pending CC Approval 06-17-26

CITY OF IMPERIAL
JOB DESCRIPTION

PARKS AND RECREATION MANAGER

SALARY: RANGE 98

FLSA Exempt – MSPC Unrepresented
Department: Parks and Recreation

DEFINITION

Under general direction, plans, organizes, oversees, coordinates, and manages the staff and operations of the Parks and Recreation Department, including parks maintenance, recreation programs, and community special events; participates in the development of policies and strategies for department operations; manages the effective use of department resources to improve organizational productivity and customer service; provides complex and responsible support to the Parks and Recreation Director in areas of expertise; and performs related duties as assigned.

SUPERVISION RECEIVED AND EXERCISED

Receives general direction from the Parks and Recreation Director. Exercises direct supervision over supervisory, professional, technical, maintenance, and administrative support staff.

CLASS CHARACTERISTICS

This is a management classification responsible for planning, organizing, reviewing, and evaluating the operations of parks maintenance, recreation programs, and community special events within the Parks and Recreation Department. Incumbents are responsible for performing diverse, specialized, and complex work involving significant accountability and decision-making responsibilities, which include developing and implementing policies and procedures for assigned programs, budget administration and reporting, and program evaluation, and ensuring compliance with regulatory requirements. Incumbents serve as a professional-level resource for organizational, managerial, and operational analyses and studies. Performance of the work requires the use of considerable independence, initiative, and discretion within broad guidelines.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so qualified employees can perform the essential functions of the job.

- Plans, manages, and oversees the daily functions, operations, and activities of the Parks and Recreation Department, including parks maintenance, year-round recreation programs, and special events.
- Participates in the development and implementation of goals, objectives, work plans, policies, and priorities for the department; recommends within department policy, appropriate service and staffing levels; recommends and administers policies and procedures.
- Participates in the development, administration, and oversight of the department budget; determines funding needed for staffing, equipment, materials, and supplies; ensures compliance with budgeted funding.
- Develops and standardizes procedures and methods to improve and continuously monitor the efficiency and effectiveness of assigned programs, service delivery methods, and procedures; assesses and monitors workload, administrative and support systems, and internal reporting relationships; identifies

opportunities for improvement and makes recommendations to the Parks and Recreation Director.

- Participates in the selection of, trains, motivates, and evaluates assigned personnel; provides or coordinates staff training; works with employees to correct deficiencies; recommends and implements discipline and termination procedures.
- Performs project management responsibilities; develops logical and efficient project plans; establishes priorities; monitors and manages task completion; anticipates and avoids problems; works collaboratively and cooperatively with team members and user groups to ensure project accountability.
- Develops and manages requests for proposals for professional and/or contracted services; prepares scope of work and any technical specifications; evaluates proposals and recommends award; negotiates contracts; administers contracts to ensure compliance with City specifications and service quality.
- Reviews plans and specifications; monitors contractor performance; ensures quality control, safety compliance, and adherence to contractual obligations.
- Administers capital improvement projects and facility renovations; prepares project timelines, budgets, and progress documentation; ensures compliance with City standards and regulatory requirements.
- Manages work orders, inspections, and maintenance schedules for parks, sports fields, playgrounds, and public facilities.
- Serves as liaison for assigned functions with other City departments, divisions, and outside agencies; provides staff support to commissions, committees, and task forces, as required.
- Provides highly complex staff assistance to the Parks and Recreation Director; prepares and presents staff reports and other written materials; supervises the establishment and maintenance of working and official department files; ensures the proper documentation of operations and activities.
- Reviews the work of staff to ensure compliance with applicable federal, state, and local laws, codes, and regulations.
- Represents the City in meetings with members of other public and private organizations, community groups, contractors, and the public.
- Establishes and maintains partnerships with schools, nonprofit organizations, and community groups.
- Attends and participates in professional group meetings; stays abreast of new trends and innovations in the fields of parks maintenance, recreation programs, and special events.
- Monitors changes in regulations and technology that may affect operations; implements policy and procedural changes after approval.
- Answers questions and provides information to the public; investigates and responds to complaints, inquiries and service requests from citizens, other departments, and agencies.
- Ensures staff observe and comply with all City and mandated safety rules, regulations, and protocols.
- Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

- Organization and management practices as applied to the development, analysis, and evaluation of programs, policies, and operational needs of the assigned area of responsibility.
- Principles and practices of employee supervision, including work planning, assignment review and evaluation, discipline, and the training of staff in work procedures.
- Principles and practices of leadership.

- Administrative principles, practices, and methods including goal setting, program development, implementation and evaluation, policy and procedure development, quality control, and work standards.
- Principles and techniques for working with groups and fostering effective team interaction to ensure teamwork is conducted smoothly.
- Principles and practices of budget development and administration.
- Principles and practices of contract administration and management.
- General principles of risk management related to the functions of the assigned area.
- Principles and practices of planning, coordinating and implementing a variety of recreation programs and special events.
- Principles and practices of project management and capital improvement projects.
- Basic practices, procedures, methods, tools, and materials involved in the maintenance of parks and recreation facilities.
- Arithmetic and statistical techniques.
- Research methods and techniques.
- Recent and on-going developments, current literature, and sources of information related to the operations of the assigned department.
- Methods and techniques of preparing technical and administrative reports, and general business correspondence.
- Applicable federal, state, and local laws, codes, and regulations as well as industry standards and best practices pertinent to the assigned area of responsibility.
- City and mandated safety rules, regulations, and protocols.
- Techniques for providing a high level of customer service, by effectively dealing with the public, vendors, contractors, and City staff.
- The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
- Modern equipment and communication tools used for business functions and program, project, and task coordination, including computers and software programs relevant to work performed.

Ability to:

- Select and supervise staff, provide training and development opportunities, ensure work is performed effectively, and evaluate performance in an objective and positive manner.
- Develop and implement goals, objectives, practices, policies, procedures, and work standards.
- Provide administrative, management, and professional leadership for the Parks and Recreation Department.
- Prepare and administer complex budgets; allocate limited resources in a cost-effective manner.
- Administer capital improvement projects.
- Ensure safety procedures are properly followed, including those related to traffic control and operation of a variety of maintenance equipment, tools, and materials.
- Read and interpret plans and specifications.
- Perform mathematical calculations quickly and accurately.
- Research, analyze, and evaluate new service delivery methods, procedures, and techniques.
- Supervise the establishment of filing, record-keeping, and tracking systems.
- Understand, interpret, and apply all pertinent laws, codes, regulations, policies and procedures, and standards relevant to work performed.
- Effectively represent the department and the City in meetings with governmental agencies, community groups, schools, nonprofit organizations, various business, professional, and regulatory organizations, and in meetings with individuals.
- Prepare clear and concise reports, correspondence, documentation, and other written materials.
- Use tact, initiative, prudence, and independent judgment within general policy and procedural guidelines.

- Independently organize work, set priorities, meet critical deadlines, and follow-up on assignments.
- Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.
- Effectively use computer systems, software applications relevant to work performed, and modern business equipment to perform a variety of work tasks.

Education and Experience:
Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Education:
- Equivalent to a bachelor's degree from an accredited college or university.

Experience:
- Five (5) years of increasingly responsible experience in parks and recreation, park maintenance, landscaping, special events, and/or planning and implementing youth or adult programs, including two (2) years in a supervisory capacity.

Licenses and Certifications:

- Possession of a valid California Driver's License, to maintained throughout employment.

Preferred:
- Possession of a valid California Department of Pesticide Regulation Qualified Applicator Certificate.
- Possession of a valid Playground Safety Inspector Certificate issued by the National Recreation and Park Association.

PHYSICAL DEMANDS

When assigned to an office environment, must possess mobility to work in a standard office setting and use standard office equipment, including a computer; vision to read printed materials and a computer screen; and hearing and speech to communicate in person and over the telephone; ability to stand and walk between work areas may be required. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate standard office equipment. Positions in this classification occasionally bend, stoop, kneel, reach, push, and pull drawers open and closed to retrieve and file information.

When assigned to working outdoors while overseeing park maintenance, recreation activities, and/or special events, must possess mobility to work in changing site conditions; possess the strength, stamina, and mobility to perform light to medium physical work; to sit, stand, and walk on level, uneven, or slippery surfaces; to reach, twist, turn, kneel, and bend, to climb and descend ladders; and to operate a motor vehicle and visit various City sites; vision to inspect site conditions and work in progress. The job involves fieldwork requiring frequent walking in operational areas to identify problems or hazards, with exposure to hazardous materials in some site locations. Employees must possess the ability to lift, carry, push, and pull materials and objects averaging a weight of 40 pounds or heavier, in all cases with the use of proper equipment and/or assistance from other staff.

ENVIRONMENTAL CONDITIONS

Employees work in an office environment with moderate noise levels, controlled temperature conditions, and no direct exposure to hazardous physical substances. Employees also work in the field and are exposed

to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and hazardous physical substances and fumes. Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.

WORKING CONDITIONS

City employees are expected to work overtime, weekends, evenings, and holidays as required to accommodate the City's needs, in addition to responding as a Disaster Services Emergency Worker (California Government Code Section 3100-3109).

City of Imperial
Classification and Compensation Schedule

CLASSIFICATION TITLE	BARGAINING UNIT NAME	RANGE
Accountant	Unrepresented MSPC	75
Accounting Assistant I	Teamsters	57
Accounting Assistant II	Teamsters	61
Accounting Technician	Teamsters	69
Administrative Assistant	Teamsters	60
Administrative Specialist	Teamsters	72
Animal Control Officer	IPOA	57
Assistant City Clerk	Unrepresented MSPC	78
Assistant City Manager	Unrepresented MSPC	102
Assistant to the City Manager	Unrepresented MSPC	98
Assistant Planner	Teamsters	80
Associate Planner	Unrepresented MSPC	85
Building Inspection and Code Enforcement Supervisor	Unrepresented MSPC	85
Building Inspector I	Teamsters	75
Building Inspector II	Teamsters	77
Building Official	Unrepresented MSPC	92
City Manager	Contract	Contract
Code Enforcement Inspector I	Teamsters	66
Code Enforcement Inspector II	Teamsters	70
Collection System Worker I	Teamsters	62
Collection System Worker II	Teamsters	66
Community Development Director	Unrepresented MSPC	102
Community Development Project Coordinator	Unrepresented MSPC	69
Community Development Project Manager	Unrepresented MSPC	92
Community Development Technician I	Teamsters	61
Community Development Technician II	Teamsters	66
Construction Project Coordinator	Unrepresented MSPC	76
Criminal Analyst	IPOA	73
Cybersecurity Program Manager	Unrepresented MSPC	92
Electrician	Teamsters	78
Engineering Technician I	Teamsters	67
Engineering Technician II	Teamsters	74
Equipment Mechanic	Teamsters	67
Executive Assistant	Unrepresented MSPC	74
Facilities Maintenance Worker	Teamsters	60

Finance Director	Unrepresented MSPC	102
Finance Manager	Unrepresented MSPC	98
Fleet and Facilities Supervisor	Unrepresented MSPC	85
Geographic Information Systems (GIS) Analyst	Unrepresented MSPC	78
Geographic Information Systems (GIS) Program Manager	Unrepresented MSPC	92
Human Resources Analyst	Unrepresented MSPC	78
Human Resources and Risk Management Director	Unrepresented MSPC	102
Human Resources Specialist	Unrepresented MSPC	80
Human Resources Technician	Unrepresented MSPC	68
HVAC/Electrical Technician	Teamsters	68
Information Technology Analyst	Unrepresented MSPC	78
Information Technology Director	Unrepresented MSPC	102
Information Technology Technician I	Teamsters	63
Information Technology Technician II	Teamsters	69
Librarian	Unrepresented MSPC	78
Library Assistant	Unrepresented MSPC	66
Library Clerk	Teamsters	60
Library Grant Coordinator	Unrepresented MSPC	75
Library Manager	Unrepresented MSPC	98
Library Page	Unrepresented Part-Time	55
Library Support Services Worker	Unrepresented Part-Time	55
Library Technician	Teamsters	63
Lifeguard	Unrepresented Seasonal	55
Lifeguard/Swim Instructor	Unrepresented Seasonal	56
Literacy Coordinator	Unrepresented MSPC	75
Lunch at the Library Intern	Unrepresented Part-Time	55
Management Analyst	Unrepresented MSPC	78
Network Specialist	Teamsters	78
Organic Waste Specialist	Teamsters	65
Parks and Recreation Director	Unrepresented MSPC	102
Parks and Recreation Manager	Unrepresented MSPC	98
Parks Maintenance Coordinator	Unrepresented MSPC	75
Parks Maintenance Worker I	Teamsters	57
Parks Maintenance Worker II	Teamsters	60
Police Captain	Unrepresented MSPC	98
Police Chief	Contract	102

Police Chief's Administrative Assistant	IPOA	60
Police Corporal	IPOA	82
Police Officer	IPOA	76
Police Recruit	Unrepresented	66
Police Sergeant	IPOA	87
Police Services Officer I	IPOA	60
Police Services Officer II	IPOA	62
Police Services Officer III	IPOA	67
Public Services Director	Unrepresented MSPC	102
Public Services Maintenance Worker I	Teamsters	57
Public Services Maintenance Worker II	Teamsters	60
Public Services Manager	Unrepresented MSPC	98
Public Services Supervisor	Unrepresented MSPC	85
Purchasing Technician	Teamsters	65
Recreation and Event Specialist I	Teamsters	62
Recreation and Event Specialist II	Teamsters	66
Recreation/Special Events Coordinator	Unrepresented MSPC	75
Recreation Leader I	Unrepresented Seasonal	55
Recreation Leader II	Unrepresented Seasonal	56
Senior Collection System Worker	Unrepresented MSPC	72
Senior Equipment Mechanic	Unrepresented MSPC	70
Senior Lifeguard/Swim Instructor	Unrepresented MSPC	57
Senior Maintenance and Utility Worker	Unrepresented MSPC	68
Senior Parks Maintenance Worker	Unrepresented MSPC	68
Senior Planner	Unrepresented MSPC	92
Senior Recreation and Event Specialist	Unrepresented MSPC	72
Senior Recreation Leader	Unrepresented MSPC	57
Senior Wastewater Treatment Plant Operator	Unrepresented MSPC	82
Senior Water Meter/Distribution Operator	Unrepresented MSPC	72
Senior Water Treatment Plant Operator	Unrepresented MSPC	82
Utility Billing Technician	Teamsters	66
Utility Maintenance Worker I	Teamsters	62
Utility Maintenance Worker II	Teamsters	66
Wastewater Operator in Training	Teamsters	60
Wastewater Plant Chief Operator	Unrepresented MSPC	85
Wastewater Treatment Plant Operator I	Teamsters	71

Wastewater Treatment Plant Operator II	Teamsters	74
Wastewater Treatment Plant Operator III	Teamsters	80
Water Meter/Distribution Operator I	Teamsters	64
Water Meter/Distribution Operator II	Teamsters	67
Water Operator In Training	Teamsters	60
Water Plant Chief Operator	Unrepresented MSPC	85
Water Treatment Plant Operator I	Teamsters	71
Water Treatment Plant Operator II	Teamsters	74
Water Treatment Plant Operator III	Teamsters	80

City Council
STAFF REPORT
Document ID: 2026-358
Category: Action Item

Department:	City Manager's Office
Department Head:	Dennis H. Morita, City Manager
Meeting Date:	June 17, 2026

SUBJECT:

AUTHORIZATION TO IMPLEMENT THE CITY'S ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM AND MEET FEDERAL INCENTIVE DEADLINE

BACKGROUND:

In alignment with City priorities to reduce rising operating costs, modernize aging infrastructure, and enhance public safety and City services, the City identified the need for comprehensive energy infrastructure modernization and utility-saving measures. The City issued a Request for Proposals in July 2025 for the design and implementation of energy, gas, and water infrastructure modernizations across General Fund and Enterprise facilities and awarded the project to Climatec on November 5, 2025.

Over the last seven months, Climatec completed investment grade assessments of the City's energy, gas, and water infrastructure. Staff and Climatec collaborated to develop a utility baseline, conduct engineering site assessments, refine a scope of work, and develop a funding plan that pays for itself with grants and savings.

In May 2026, City Council reviewed the preliminary assessment and directed staff to finalize the program details and bring back an action item on June 17th to consider program implementation. This Council action date will allow the City to meet the July 4, 2026, safe harbor deadline for Inflation Reduction Act (IRA) federal incentives under which the City is eligible for approximately $3.4 million in grant reimbursements.

Pursuant to California Government Code §§ 4217.10–4217.18, public agencies may enter into energy services agreements to implement energy efficiency and renewable energy projects, provided that the City Council conducts a noticed public hearing and determines that anticipated cost savings resulting from the improvements will exceed the cost of the program.
SCOPE OF WORK:

The final Energy Infrastructure Modernization Program scope of work includes:

- Solar PV Systems at 4 sites

- HVAC modernizations at 5 sites
- New Building Automation Systems at 5 sites
- Interior LED lighting modernizations at 4 sites
- Exterior LED lighting modernizations at 3 sites
- New Sports Field LED lighting at 2 sites
- Occupancy Sensors / Dimming Control at 3 sites
- Electric Vehicle (EV) chargers at 2 sites

The program fully pays for itself with grants and savings realized over the life of the equipment which is 15 years for the efficiency measures and 30 years for solar. City capital contributions will be used to pay for the program initially during the construction period and will be recouped through operating budget savings over time.

If necessary, Staff may seek municipal lease-purchase financing solutions to supplement City contributions, subject to separate Council action. Financing options are available with interest rates in the range of 4.3%-4.5% and would be repaid through guaranteed savings.

Anticipated expenditures for the Program would begin in Q2 2026 with the initial June solar panel invoice, followed by 24 months of construction progress payments and conclude with a retention invoice payable in Q3 2028. After construction, savings would be measured, verified and reported each year.

Once the solar is online, the City will file with the IRS to receive the IRA federal incentives and receive a direct pay reimbursement for 40%+ of the solar investment.

Contribution in FY 25-26
To ensure the City meets IRS safe harbor deadline before July 4, 2026, solar panels must be purchased and paid for before the end of June to meet the 5% safe harbor requirement. This will require the City to appropriate $730,800 in FY 25-26 to pay the June 2026 solar invoice with funding from each fund as follows:

- $65,772 from General Fund
- $233,856 from Water Enterprise Fund
- $431,172 from Wastewater Enterprise Fund

Contributions in FY 26-27 through FY 28-29
For funding the rest of the Program, staff will work with Climatec to finalize the details of the funding sources from either City budget appropriations and/or low-interest financing options. The anticipated expenditures for FY 26-27 through FY 28-29 will be in amounts not to exceed:

- $3,088,308 from General Fund
- $2,175,842 from Water Enterprise Fund

- $4,300,617 from Wastewater Enterprise Fund

If authorized, the construction duration is expected to be approximately 24 months.

FISCAL IMPACT:

Total Infrastructure Modernizations……	$ 10.3 M
Less Federal Incentives……	($ 3.4 M)
Net Investment for the City……	$ 6.9 M
Lifecycle Savings……..…	$15.7 M

The program fully pays for itself with grants and savings realized over the life of the equipment, which is 15 years for the efficiency measures and 30 years for solar. City capital contributions will be used to pay for the program initially during the construction period and will be recouped through operating budget savings over time.

If necessary, Staff may seek municipal lease-purchase financing solutions to supplement City contributions, subject to separate Council action. Financing options are available with interest rates in the range of 4.3%-4.5% and would be repaid through guaranteed savings.

REQUESTED ACTION:

Adopt Resolution 2026-42, AUTHORIZATION FOR IMPLEMENTING THE CITY OF IMPERIAL ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM PURSUANT TO GOVERNMENT CODE SECTION 4217.10-18, MAKING CERTAIN FINDINGS AND AUTHORIZING RELATED ACTIONS and authorize an amendment to the Energy Services Agreement with Climatec (previously approved by Council in November 2025) to now include the detailed scope of work for program implementation.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Resolution No. 2026-42 Energy Infrastructure Modernization
2. Resolution Exhibit A - Agreement (First Amendment to the ESA) (pg1-5)
3. Resolution Exhibit B - Program Overview FINAL
4. Resolution Exhibit A - Agreement (First Amendment to the ESA)

RESOLUTION NO. 2026-42

AUTHORIZATION FOR IMPLEMENTING THE CITY OF IMPERIAL ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM PURSUANT TO GOVERNMENT CODE SECTION 4217.10-18, MAKING CERTAIN FINDINGS AND AUTHORIZING RELATED ACTIONS

WHEREAS, it is the policy of the State of California and the intent of the State Legislature to promote all feasible means of energy conservation, efficiency and renewable energy generation; and

WHEREAS, the City of Imperial ("City") finds it to be in the best interests of the City to implement projects to promote energy efficiency and renewable energy to achieve reduction of greenhouse gas emissions and other threats to overall environmental health and viability; and

WHEREAS, Government Code sections 4217.10 through 4217.18 authorize the City's Council to enter into an energy service agreement if the cost is less than the anticipated marginal cost of thermal, electrical, or other energy that would have been consumed by the City in the absence of the agreement; and

WHEREAS, the Council and City staff reviewed the qualifications and pricing submitted by Climatec in August 2025 under RFP 2025-10 for Infrastructure Modernization & Utility Savings Program and found Climatec's qualifications to be bona fide and adequate; and

WHEREAS, Council approved an Energy Services Agreement ("Agreement") with Climatec, a wholly owned brand of Bosch Building Technologies LLC, on November 5, 2025 authorizing program development with the intent to amend the agreement for implementation once the scope of work was defined; and

WHEREAS, Climatec collaborated with City staff to assess the feasibility of various energy conservation measures to reduce the City's energy consumption and cost and coauthored a design/build scope of work and funding plan ("Program") to meet the City's needs (detailed in Exhibit A "Agreement" and Exhibit B "Program Overview"); and

WHEREAS, based on Climatec's analysis, City staff determined the anticipated cost to implement the Program will be less than the anticipated marginal cost to the City for thermal, electrical, and other energy that would have been consumed in absence of the Program; and

WHEREAS, a public hearing has been held, public notice of which was given for at least two (2) weeks in advance, to receive public comment on the proposed Program and associated Agreement, as required by Government Code section 4217.12; and

WHEREAS, the First Amendment to the Energy Services Agreement will authorize design/build program implementation for the not-to-exceed price stated therein; and

WHEREAS, it is necessary for the City to take timely action to meet the requirements for Inflation

Reduction Act federal incentives, including the July 4, 2026 safe harbor deadline.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF IMPERIAL DOES HEREBY FIND, RESOLVE, DETERMINE, AND ORDER AS FOLLOWS:

Section 1. Recitals. The Council finds and declares that all the recitals contained herein are true and correct, and adopted by this reference as findings of the Council.

Section 2. Agreement Findings. The Council finds that the cost of the Agreement for the Program provided by Climatec thereunder is less than the anticipated marginal cost of thermal, electrical, or other energy that would have been consumed in the absence of the Program and that it is in the best interest of the City to approve and enter into the Agreement.

Section 3. Agreement Approval. The forms of the Energy Services Agreement by and between the City and Bosch Building Technologies LLC, by and through its wholly owned brand Climatec, are hereby approved, subject to final approval by the City Manager and City Attorney. City Manager is hereby authorized and directed, for and in the name of and on behalf of the City, to execute the First Amendment to the Energy Services Agreement and related documents and functions as necessary to carry out the Program contemplated therein, including related funding source requirements, subject to such minor changes thereto as the City Manager may require and approve.

Section 4. Effective Date. This Resolution shall take effect upon adoption.

PASSED, ADOPTED, AND APPROVED by the City Council of the City of Imperial, this 17th day of June, 2026.

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

I, Kristina Shields, City Clerk of the City of Imperial, California, hereby certify that the foregoing Resolution No. 2026-42 was duly adopted at a meeting of the Imperial City Council at its meeting held on the 17th day of June, 2026, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

IN WITNESS WHEREOF, I hereunto set my hand and affixed the official seal of the City of Imperial, California, on June 17, 2026.

_____
Kristina Shields, City Clerk

EXHIBIT A

AGREEMENT

EXHIBIT B

PROGRAM

OVERVIEW

First Amendment
To

Energy Services Agreement
between
City of Imperial
and
Bosch Building Technologies LLC

This First Amendment to the Energy Services Agreement (ESA) for an Infrastructure Modernization and Utility Savings Program is between City of Imperial ("City") and Bosch Building Technologies LLC ("Contractor"), collectively the ("Parties"), dated April 1, 2026 ("Agreement") is made effective as of June 17, 2026 ("Effective Date).

The CITY and CONTRACTOR each may be referred to herein as a "Party" and collectively as the "Parties."

WHEREAS the Parties desire to amend the Agreement to include additional services for the Project Implementation/Construction as described in "Attachment A" to this First Amendment, which is attached hereto and incorporated herein by this reference.

A. The Contractor will furnish all of the Work described in "Attachment A" to this First Amendment.

B. All other terms of the Agreement not referenced in this First Amendment shall remain unchanged; in full force and effect. In the event of a conflict between a provision of the Agreement and this First Amendment, this First Amendment shall prevail.

C. This First Amendment and the Agreement, together with any attachments or other documents described or incorporated therein, if any, constitute the entire Agreement and understanding of the Parties, and there are no other terms or conditions, written or oral, controlling this matter.

D. This First Amendment may be executed on separate counterparts that, upon completion, may be assembled into and shall be construed as one document. Delivery of an executed signature page of this First Amendment by electronic means, including an attachment to an email, shall be effective as delivery of an executed original.

E. Unless a different date is provided in this First Amendment, the effective date of this First Amendment shall be the latest date of execution set forth by the names of the signatories below.

NOW, THEREFORE, in consideration of the mutual covenants, promises, terms, and conditions set forth in the original Energy Services Agreement and the First Amendment, the Parties hereby agree as follows:

1. **INSTALLATION.** Contractor shall provide City with an Energy Infrastructure Modernization and Utility Savings Program, as identified in Attachment(s) A, B, C , and D (the "Work") and incorporated herein by reference at the total fixed price of Ten million two hundred ninety-five thousand five hundred sixty-seven dollars and 00/100 ($10,295,567.00) including required taxes and performance bond.

   Contractor is responsible for the design, engineering, permits, fees, approvals, project management, installation, startup, training, checkout, warranty, and insurance specifically associated with the Work to be performed. Contractor is not responsible for any equipment, systems, controls, comfort problems, balancing, duct cleaning, existing deficient conditions, etc. not specifically included in this Agreement. Contractor will provide submittals and engineered drawings (if required), for City's technical review and written approval, prior to initiating construction. All construction and associated cleanup shall be performed and scheduled to minimize any disruption with any ongoing City activities. Contractor shall keep the Site(s) in order and shall maintain a reasonably clean condition and provide the City with safe and proper access to all Work at all times. Contractor requires all underground conduits between buildings to be clear of obstruction, of sufficient size to accommodate new wire and cable, and easily accessible. The City is responsible for Ethernet drops at each location for Energy Management System communication.

2. **TERM.** The term of this agreement shall be from the Effective Date of the Agreement through a date mutually agreed upon by the Parties based on the construction schedule of the project.

3. **SCOPE OF WORK.** The Scope of Work is more fully described in Attachment A. Once this Agreement is executed by the City and Contractor, Contractor may not revise the Agreement in any way except by mutual written agreement with the City.

   Contractor shall keep the Site(s) in order when Work is being performed and shall maintain the Site(s) in a reasonably clean condition. The City shall always have access to the Work. Contractor will maintain safety in the performance of the Work and shall erect and maintain, as required by conditions and progress of Work, all necessary safeguards including necessary permits, signs, barriers, lights, and security persons for protection of workers and the public and shall post danger signs warning against hazards created by the Work.

   This Agreement is based upon the use of straight time labor only unless stated otherwise in this Agreement. The City agrees to provide Contractor with required field utilities (electricity, toilets, drinking water, etc.) without charge. Contractor agrees to keep the job site clean of debris arising out of its own operations. Except as provided herein, City shall not back charge Contractor for any cost or expenses without Contractors written consent. Unless specifically noted in Attachment A or services undertaken by Contractor under this Agreement, Contractor's obligations under this Agreement expressly exclude any work or service of any nature associated or connected with the identification, abatement, clean up, control, removal or disposal of environment hazards or dangerous substances, to include but not to be limited to asbestos, PCBs, or mold discovered in or on the premises. However, if any hazardous materials are found the City has the option to have a 3rd party remediate the hazardous materials or under a separate agreement the Contractor provide remediation at the job site(s). Any language or provision of the Agreement elsewhere contained which may authorize or empower the City to change, modify, or alter the scope of work or services to be performed by Contractor shall not operate to compel Contractor to perform any work relating to hazards without Contractor's express written consent.

4. **SOLAR INSTALLATION.** The Work excludes correction of concealed conditions that could not have been ascertained by general visual inspection. The Work excludes correction of any existing or previous violations of laws, codes or utility requirements and errors and omissions of the City or other contractors not communicated to Contractor. City will provide all discretionary permits (permits requiring the discretion of the issuer) required in time to execute the Work within the agreed upon

schedule. Contractor will provide all non-discretionary, ministerial (permits not requiring thought and discretion of the issuer) permits required for the provision of the solar installation. City agrees to promptly execute and return provided Preliminary Interconnection Documentation (initial or preliminary paperwork or documentation required by the Utility for interconnection of the system to be executed by the system owner), Preliminary Rebate Documentation (documentation comprising the initial or preliminary paperwork required by the administrator of the Rebate or the Rebate to be reserved) (if applicable), and Site Owner Consent Documentation (agreement from the site owner to install system on the real property identified in the proposal) (if applicable). Scope in Attachment D will include commercially reasonable efforts to promptly obtain the PTO (Permission to Operate) from City's utility. The monitoring equipment provider will provide monitoring hosting services for the first five (5) years of operation. City warrants that they hold title to the installation site and agree to the solar installation on that site.

Terms applicable to the solar scope are as follows:

a. Interconnection Agreement – means an agreement between the City and a particular utility involved for interconnection of the solar output to the electrical grid.
b. Interconnection Equipment – all equipment (including wiring and conduit and metering for net metering) on the City side of the main service meter to enable proper interconnection of the solar system to the grid.

(4.1) Design – Contractor shall prepare the design submittals (prepared by qualified individuals). The submittal shall be submitted to City for approval. City shall provide approvals within five (5) business days from receipt. If not received within five (5) days, the submittal may be deemed approval by Contractor.

(4.2) Unforeseen Site Conditions – Within ten (10) days of discovery, Contractor will notify City in writing of (a) subsurface or latent physical conditions at the site differing materially from those described in any contract or City documentation.

5. TERMINATION.

a. Termination for Cause - The City may terminate the Contractor and/or this Contract for the following reasons: persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials; persistently or repeatedly is absent, without excuse, from the job site; fails to make payment to subcontractors, suppliers, materialmen, etc.; persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction; falls behind on the Project and refuses or fails to undertake a recovery schedule; if the Contractor has been debarred from performing work; becomes bankrupt or insolvent, including the filing of a general assignment for the benefit of creditors; Contractor or any of its subcontractors are not properly registered with the Department of Industrial Relations ("DIR") at all times; or is otherwise is in breach of a provision of the Contract Documents. If any of the above reasons exist, the City may, without prejudice to any other rights or remedies of the City and after giving the Contractor written notice of five (5) days, terminate the Contractor and/or this Contract. If the City terminates the Contract for one of the reasons stated above, the Contractor shall not be entitled to receive further payment until the Project is complete. All costs associated with the termination and completion of the Project shall be the responsibility of the Contractor. If the unpaid balance of the Contract Sum exceeds costs of completing the Project, including compensation for services and expenses made necessary thereby, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the City. The amount to be paid to the Contractor, or City shall be certified upon application. This payment obligation shall survive completion of the Contract.

b. Termination for Convenience - City may terminate the Contract upon thirty (30) days written notice to the Contractor and use any reasonable method the City deems expedient to complete the Project, including contracting with replacement contractor or contractors, if it is found that reasons beyond the control of either the City or Contractor make it impossible or against the City's interest to complete the Project. In such case, the Contractor shall have no claims against the City except for: (1) the actual cost for approved labor, materials, and services performed in accordance with the Contract Documents which have not otherwise been previously paid for and which are supported and documented through timesheets, invoices, receipts, or otherwise; and (2) profit and overhead of ten percent (10%) of the approved costs in item (1); and (3) termination cost of five percent (5%) of the approved costs in item (1).

6. **OCCUPATIONAL SAFETY & HEALTH.** The parties hereto agree to notify each other immediately upon becoming aware of any alleged violation of, the Occupational Safety and Health Act (OSHA) relating in any way to the Work.

7. **CONFIDENTIALITY.** Contractor shall maintain confidentiality of all information, documents, procedures, and other items Contractor encounters while performing Work to the extent allowed by law. This requirement shall survive expiration or termination of the Contract and includes sensitive municipal and personnel information.

8. **ANTI-TRUST CLAIM.** Contractor and its subcontractor(s) assign to City all rights, title, and interest to all causes of action under § 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with § 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to a contract or subcontract. This assignment shall become effective when City tenders' final payment to Contractor, without further acknowledgment.

9. **GOVERNING LAW.** The Contract shall be governed by and construed in accordance with California laws with venue in the City's County.

10. **ANTI-DISCRIMINATION.** In connection with any City Contract, there shall be no discrimination against any employee because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. Contractor agrees to comply with applicable laws including, but not limited to, the California Fair Employment and Housing Act (Gov. Code § 12900 et seq.) and Labor Code § 1735. Contractor shall require like compliance by all subcontractor(s).

WHEREFORE, this First Amendment and the Agreement, together with any attachments or other documents described or incorporated therein, if any, constitute the entire agreement and understanding of the Parties, and there are no other terms or conditions, written or oral, controlling this matter.

WHEREFORE, this First Amendment may be executed on separate counterparts that, upon completion, may be assembled into and shall be construed as one document. Delivery of an executed signature page of this First Amendment by electronic means, including an attachment to an email, shall be effective as delivery of an executed original.

WHEREFORE, unless a different date is provided in this First Amendment, the effective date of this First Amendment shall be the latest date of execution set forth by the names of the signatories below.

IN WITNESS WHEREOF, this First Amendment is executed by the Parties or their duly authorized representatives as of the Effective Date.

City of Imperial	Bosch Building Technologies, LLC
_____	_____
Signature	Signature
_____	_____
Printed Name	Printed Name
_____	_____
Title	Title
_____	_____
Date	Date

CITY OF IMPERIAL
ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM

SCOPE OF WORK & FUNDING PLAN	
HVAC	– High Efficiency HVAC Modernizations at 5 Sites
BUILDING AUTOMATION SYSTEM (BAS)	– New BAS at 5 Sites
LIGHTING	– Interior LED Lighting at 4 Sites – Exterior LED Lighting at 3 Sites – New Sports Field LED Lighting at 2 Sites – Occupancy Sensors/ Dimming Control at 3 Sites
RENEWABLES + EV INFRASTRUCTURE	– Solar PV Systems at 4 Sites – Electric Vehicle (EV) Chargers at 2 Sites
TOTAL INFRASTRUCTURE MODERNIZATIONS	$ 10.3 Million
LESS FEDERAL INCENTIVE REBATES	($ 3.4 Million)
NET INVESTMENT FOR THE CITY	$ 6.9 Million
LIFECYCLE SAVINGS	$ 15.7 Million
FUNDING SOURCES	– City Contributions – Utility Incentives – Inflation Reduction Act Federal Incentives – Municipal Lease Purchase
ENVIRONMENTAL BENEFITS	83.6 million pounds of CO_2 Greenhouse Gas (GHG) Emissions Reduction

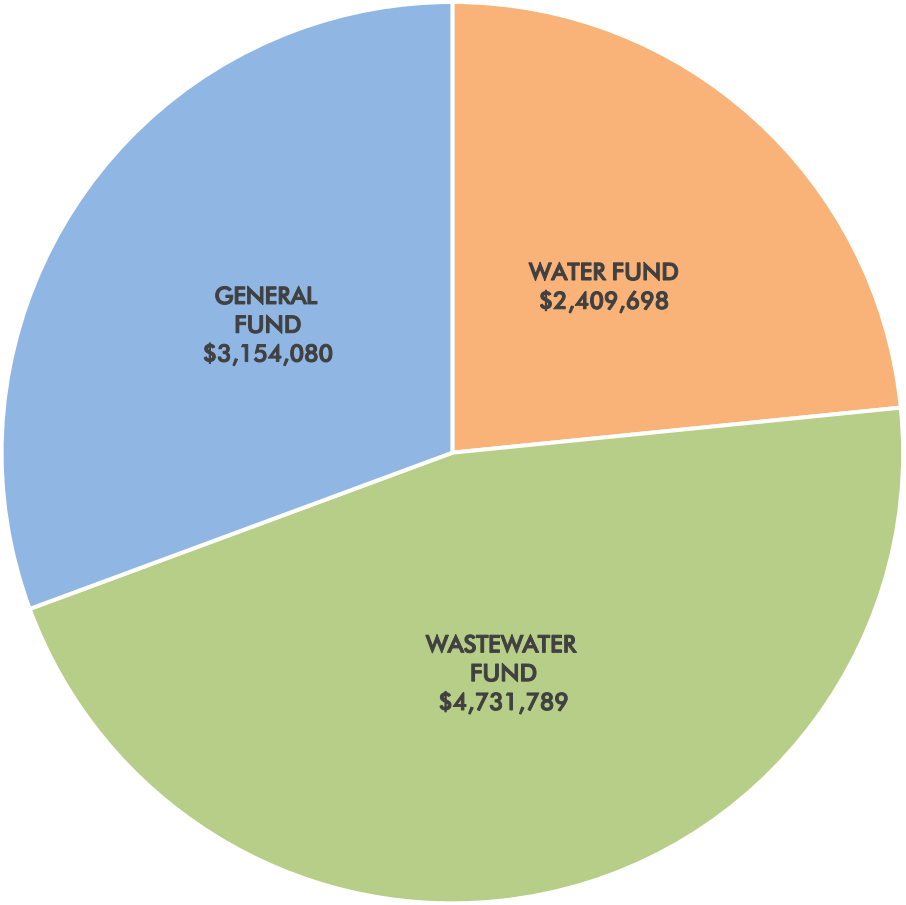
CITY OF IMPERIAL
INFRASTRUCTURE MODERNIZATION & UTILITY SAVINGS PROGRAM
DETAILED SCOPE OF WORK

06/17/2026

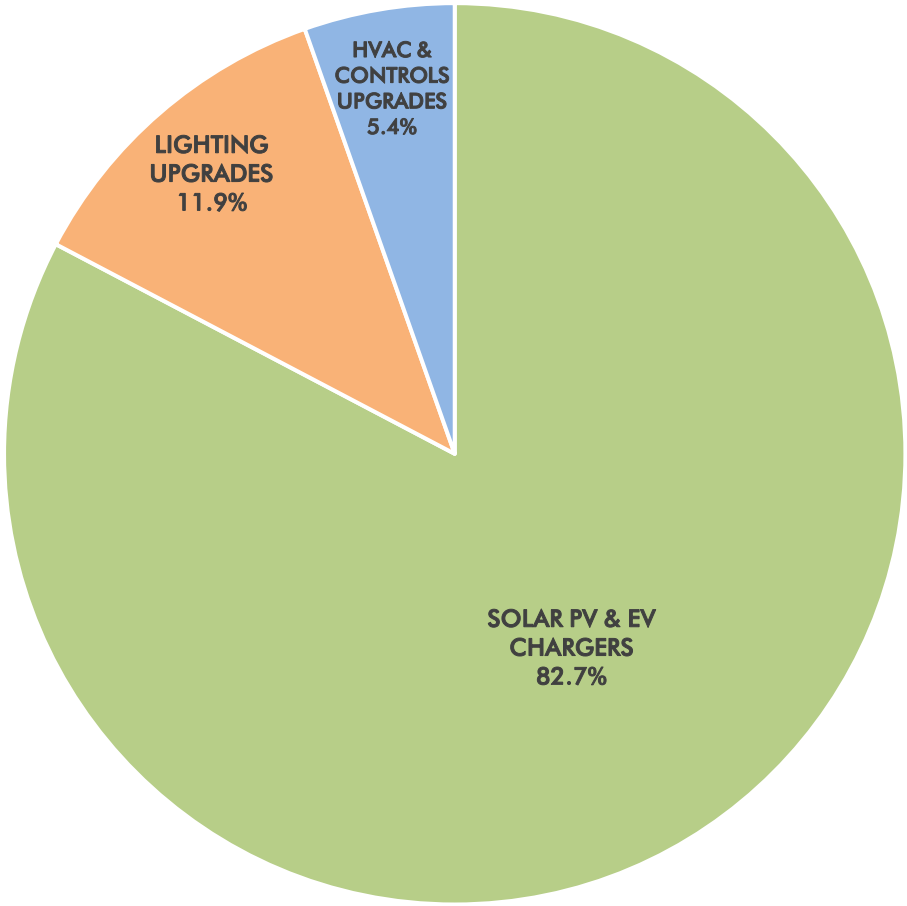
	HVAC	BUILDING AUTOMATION SYSTEM (BAS)	LIGHTING				RENEWABLES	
Energy Efficiency Measures / Renewable Energy Measures	High Efficiency HVAC Modernizations	New BAS	Interior LED Lighting	Exterior LED Lighting	Sports Field LED Lighting	Occupancy Sensors/ Dimming Controls	Solar PV Structures	Electric Vehicle Charging Station(s)
City Hall / Police Dept.	✓	✓	✓	✓		✓	✓	✓
Irving Park					✓			
Joshua Tree Park					✓			
Library	✓	✓	✓				✓	✓
Lift Station/Pump Station	✓	✓						
Wastewater Treatment Plant	✓	✓	✓	✓		✓	✓	
Water Treatment Plant	✓	✓	✓	✓		✓	✓	

CITY OF IMPERIAL
ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM

TOTAL PROGRAM BY FUND



TOTAL PROGRAM BY MEASURE



CITY OF IMPERIAL ENERGY INFRASTRUCTURE MODERNIZATION PROGRAM

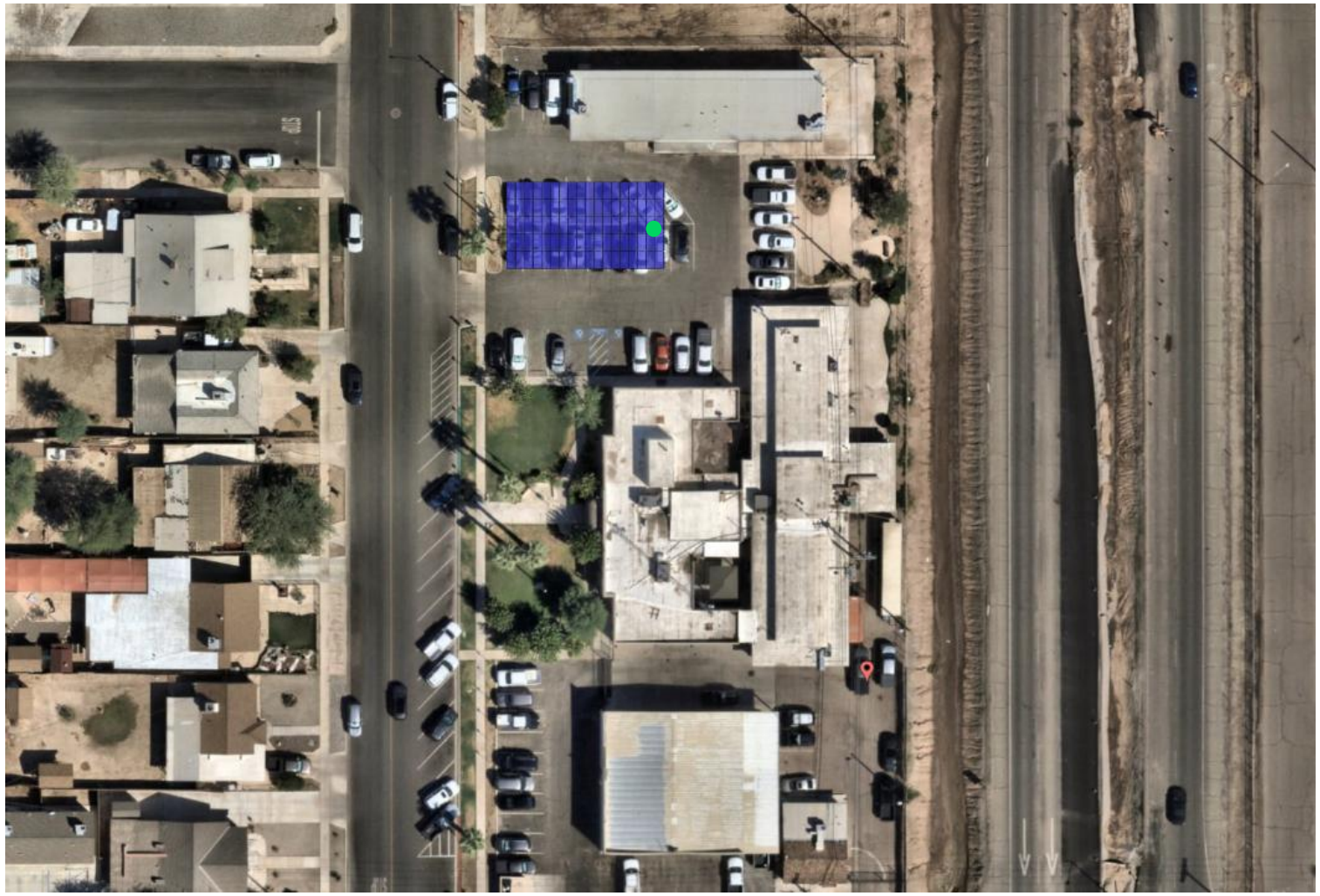
ANTICIPATED SAVINGS & GRANTS

YEAR	PROGRAM INFLOWS				
	Annual Operating Savings for General Fund	Annual Operating Savings for Water Fund	Annual Operating Savings for Wastewater Fund	Anticipated Grants	Total Inflows
1	$49,792	$109,011	$123,896		$282,698
2	$50,923	$112,168	$127,565	$2,700,000	$2,990,656
3	$52,089	$115,420	$131,345	$700,000	$998,854
4	$53,292	$118,769	$135,239		$307,300
5	$54,532	$122,219	$139,251		$316,002
6	$55,811	$125,772	$143,383		$324,966
7	$57,130	$129,432	$147,641		$334,202
8	$58,490	$133,201	$152,027		$343,718
9	$59,892	$137,083	$156,546		$353,521
10	$61,339	$141,081	$161,201		$363,621
11	$62,830	$145,199	$165,997		$374,026
12	$64,368	$149,441	$170,938		$384,747
13	$65,954	$153,809	$176,028		$395,792
14	$67,590	$158,308	$181,272		$407,171
15	$69,277	$162,943	$186,674		$418,894
16	$43,289	$160,415	$177,378		$381,082
17	$44,580	$165,199	$182,668		$392,447
18	$45,910	$170,126	$188,116		$404,152
19	$47,279	$175,200	$193,726		$416,206
20	$48,689	$180,426	$199,504		$428,619
21	$50,141	$185,807	$205,455		$441,403
22	$51,637	$191,349	$211,582		$454,568
23	$53,177	$197,056	$217,893		$468,125
24	$54,763	$202,933	$224,391		$482,087
25	$56,396	$208,985	$231,084		$496,465
26	$58,078	$215,218	$237,976		$511,272
27	$59,810	$221,637	$245,074		$526,521
28	$61,594	$228,247	$252,383		$542,225
29	$63,431	$235,055	$259,910		$558,397
30	$65,323	$242,065	$267,662		$575,051
TOTAL	**$1,687,409**	**$4,993,575**	**$5,593,805**	**$3,400,000**	**$15,674,788**

City of Imperial
Solar Layouts
Detailed Assessment

06/17/2026

City Hall

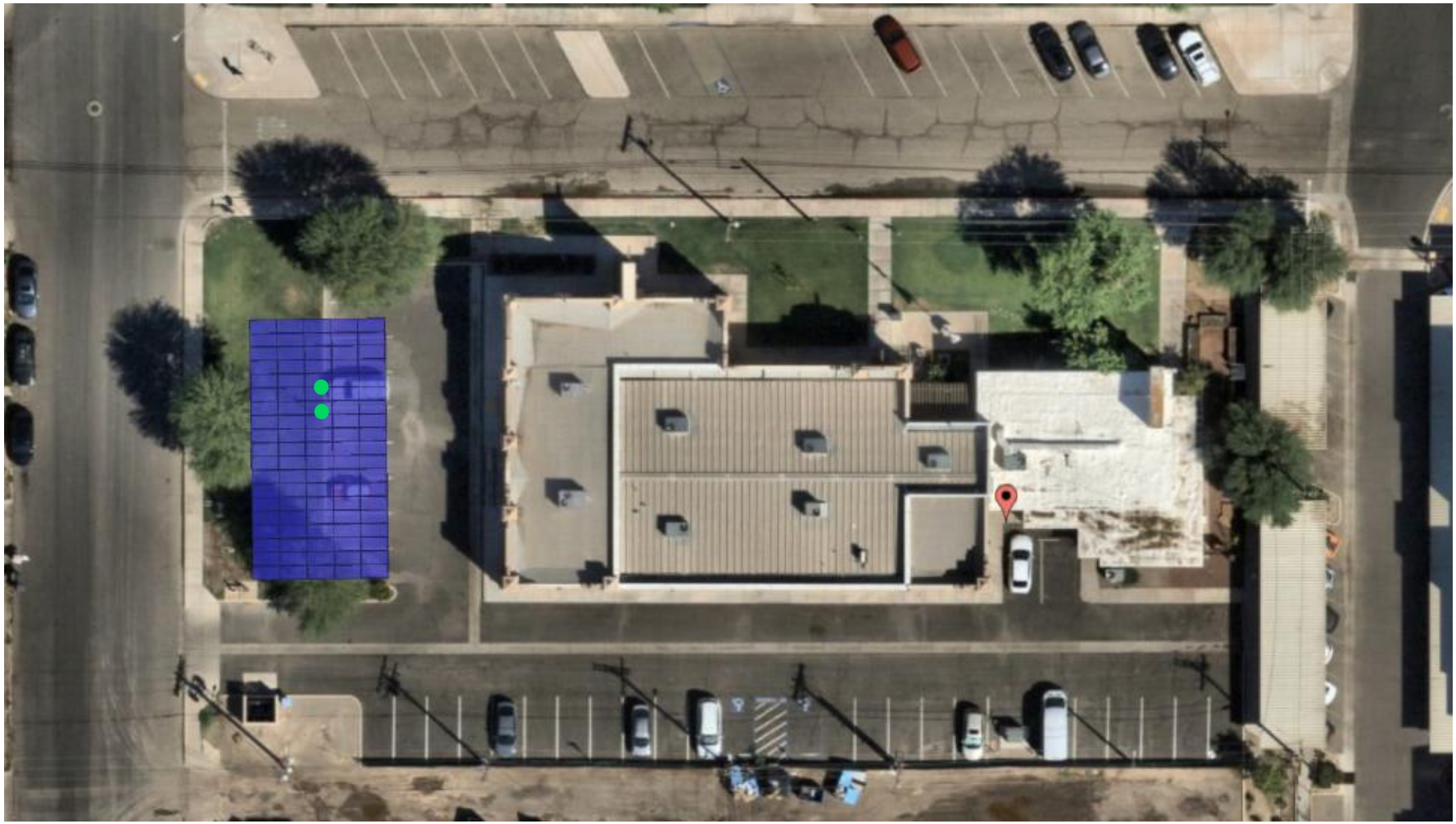


● EV Charging

City of Imperial
Solar Layouts
Detailed Assessment

06/17/2026

Library

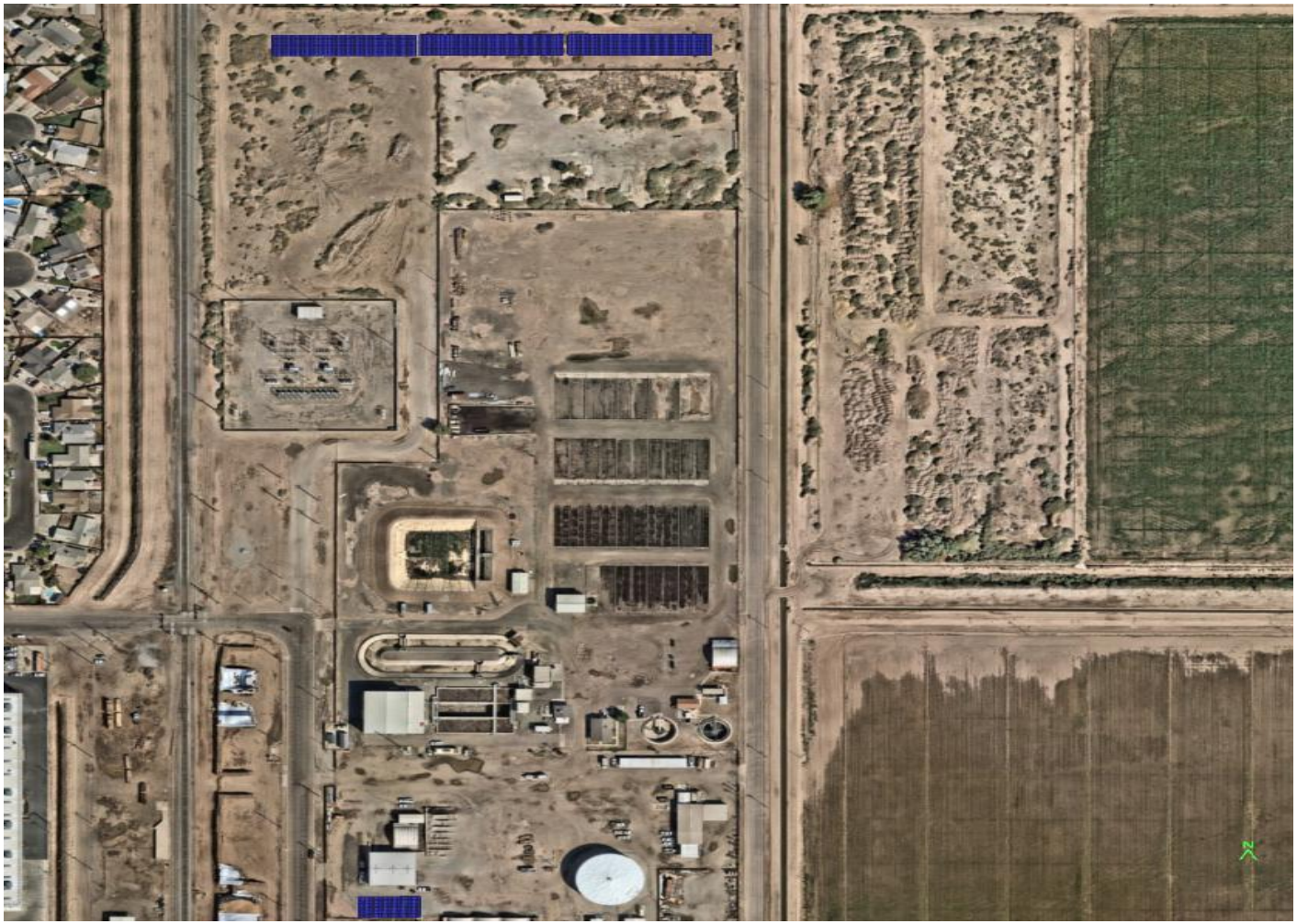


● EV Charging

City of Imperial
Solar Layouts
Detailed Assessment

06/17/2026

Wastewater Treatment Plant



City of Imperial
Solar Layouts
Detailed Assessment

06/17/2026

Water Treatment Plant

First Amendment
To

Energy Services Agreement
between
City of Imperial
and
Bosch Building Technologies LLC

This First Amendment to the Energy Services Agreement (ESA) for an Infrastructure Modernization and Utility Savings Program is between City of Imperial ("City") and Bosch Building Technologies LLC ("Contractor"), collectively the ("Parties"), dated April 1, 2026 ("Agreement") is made effective as of June 17, 2026 ("Effective Date).

The CITY and CONTRACTOR each may be referred to herein as a "Party" and collectively as the "Parties."

WHEREAS the Parties desire to amend the Agreement to include additional services for the Project Implementation/Construction as described in "Attachment A" to this First Amendment, which is attached hereto and incorporated herein by this reference.

A. The Contractor will furnish all of the Work described in "Attachment A" to this First Amendment.

B. All other terms of the Agreement not referenced in this First Amendment shall remain unchanged; in full force and effect. In the event of a conflict between a provision of the Agreement and this First Amendment, this First Amendment shall prevail.

C. This First Amendment and the Agreement, together with any attachments or other documents described or incorporated therein, if any, constitute the entire Agreement and understanding of the Parties, and there are no other terms or conditions, written or oral, controlling this matter.

D. This First Amendment may be executed on separate counterparts that, upon completion, may be assembled into and shall be construed as one document. Delivery of an executed signature page of this First Amendment by electronic means, including an attachment to an email, shall be effective as delivery of an executed original.

E. Unless a different date is provided in this First Amendment, the effective date of this First Amendment shall be the latest date of execution set forth by the names of the signatories below.

NOW, THEREFORE, in consideration of the mutual covenants, promises, terms, and conditions set forth in the original Energy Services Agreement and the First Amendment, the Parties hereby agree as follows:

1. **INSTALLATION.** Contractor shall provide City with an Energy Infrastructure Modernization and Utility Savings Program, as identified in Attachment(s) A, B, C , and D (the "Work") and incorporated herein by reference at the total fixed price of Ten million two hundred ninety-five thousand five hundred sixty-seven dollars and 00/100 ($10,295,567.00) including required taxes and performance bond.

   Contractor is responsible for the design, engineering, permits, fees, approvals, project management, installation, startup, training, checkout, warranty, and insurance specifically associated with the Work to be performed. Contractor is not responsible for any equipment, systems, controls, comfort problems, balancing, duct cleaning, existing deficient conditions, etc. not specifically included in this Agreement. Contractor will provide submittals and engineered drawings (if required), for City's technical review and written approval, prior to initiating construction. All construction and associated cleanup shall be performed and scheduled to minimize any disruption with any ongoing City activities. Contractor shall keep the Site(s) in order and shall maintain a reasonably clean condition and provide the City with safe and proper access to all Work at all times. Contractor requires all underground conduits between buildings to be clear of obstruction, of sufficient size to accommodate new wire and cable, and easily accessible. The City is responsible for Ethernet drops at each location for Energy Management System communication.

2. **TERM.** The term of this agreement shall be from the Effective Date of the Agreement through a date mutually agreed upon by the Parties based on the construction schedule of the project.

3. **SCOPE OF WORK.** The Scope of Work is more fully described in Attachment A. Once this Agreement is executed by the City and Contractor, Contractor may not revise the Agreement in any way except by mutual written agreement with the City.

   Contractor shall keep the Site(s) in order when Work is being performed and shall maintain the Site(s) in a reasonably clean condition. The City shall always have access to the Work. Contractor will maintain safety in the performance of the Work and shall erect and maintain, as required by conditions and progress of Work, all necessary safeguards including necessary permits, signs, barriers, lights, and security persons for protection of workers and the public and shall post danger signs warning against hazards created by the Work.

   This Agreement is based upon the use of straight time labor only unless stated otherwise in this Agreement. The City agrees to provide Contractor with required field utilities (electricity, toilets, drinking water, etc.) without charge. Contractor agrees to keep the job site clean of debris arising out of its own operations. Except as provided herein, City shall not back charge Contractor for any cost or expenses without Contractors written consent. Unless specifically noted in Attachment A or services undertaken by Contractor under this Agreement, Contractor's obligations under this Agreement expressly exclude any work or service of any nature associated or connected with the identification, abatement, clean up, control, removal or disposal of environment hazards or dangerous substances, to include but not to be limited to asbestos, PCBs, or mold discovered in or on the premises. However, if any hazardous materials are found the City has the option to have a 3rd party remediate the hazardous materials or under a separate agreement the Contractor provide remediation at the job site(s). Any language or provision of the Agreement elsewhere contained which may authorize or empower the City to change, modify, or alter the scope of work or services to be performed by Contractor shall not operate to compel Contractor to perform any work relating to hazards without Contractor's express written consent.

4. **SOLAR INSTALLATION.** The Work excludes correction of concealed conditions that could not have been ascertained by general visual inspection. The Work excludes correction of any existing or previous violations of laws, codes or utility requirements and errors and omissions of the City or other contractors not communicated to Contractor. City will provide all discretionary permits (permits requiring the discretion of the issuer) required in time to execute the Work within the agreed upon

schedule. Contractor will provide all non-discretionary, ministerial (permits not requiring thought and discretion of the issuer) permits required for the provision of the solar installation. City agrees to promptly execute and return provided Preliminary Interconnection Documentation (initial or preliminary paperwork or documentation required by the Utility for interconnection of the system to be executed by the system owner), Preliminary Rebate Documentation (documentation comprising the initial or preliminary paperwork required by the administrator of the Rebate or the Rebate to be reserved) (if applicable), and Site Owner Consent Documentation (agreement from the site owner to install system on the real property identified in the proposal) (if applicable). Scope in Attachment D will include commercially reasonable efforts to promptly obtain the PTO (Permission to Operate) from City's utility. The monitoring equipment provider will provide monitoring hosting services for the first five (5) years of operation. City warrants that they hold title to the installation site and agree to the solar installation on that site.

Terms applicable to the solar scope are as follows:

a. Interconnection Agreement – means an agreement between the City and a particular utility involved for interconnection of the solar output to the electrical grid.
b. Interconnection Equipment – all equipment (including wiring and conduit and metering for net metering) on the City side of the main service meter to enable proper interconnection of the solar system to the grid.

(4.1) Design – Contractor shall prepare the design submittals (prepared by qualified individuals). The submittal shall be submitted to City for approval. City shall provide approvals within five (5) business days from receipt. If not received within five (5) days, the submittal may be deemed approval by Contractor.

(4.2) Unforeseen Site Conditions – Within ten (10) days of discovery, Contractor will notify City in writing of (a) subsurface or latent physical conditions at the site differing materially from those described in any contract or City documentation.

5. TERMINATION.

a. Termination for Cause - The City may terminate the Contractor and/or this Contract for the following reasons: persistently or repeatedly refuses or fails to supply enough properly skilled workers or proper materials; persistently or repeatedly is absent, without excuse, from the job site; fails to make payment to subcontractors, suppliers, materialmen, etc.; persistently disregards laws, ordinances, rules, regulations, or orders of a public authority having jurisdiction; falls behind on the Project and refuses or fails to undertake a recovery schedule; if the Contractor has been debarred from performing work; becomes bankrupt or insolvent, including the filing of a general assignment for the benefit of creditors; Contractor or any of its subcontractors are not properly registered with the Department of Industrial Relations ("DIR") at all times; or is otherwise is in breach of a provision of the Contract Documents. If any of the above reasons exist, the City may, without prejudice to any other rights or remedies of the City and after giving the Contractor written notice of five (5) days, terminate the Contractor and/or this Contract. If the City terminates the Contract for one of the reasons stated above, the Contractor shall not be entitled to receive further payment until the Project is complete. All costs associated with the termination and completion of the Project shall be the responsibility of the Contractor. If the unpaid balance of the Contract Sum exceeds costs of completing the Project, including compensation for services and expenses made necessary thereby, such excess shall be paid to the Contractor. If such costs exceed the unpaid balance, the Contractor shall pay the difference to the City. The amount to be paid to the Contractor, or City shall be certified upon application. This payment obligation shall survive completion of the Contract.

b. Termination for Convenience - City may terminate the Contract upon thirty (30) days written notice to the Contractor and use any reasonable method the City deems expedient to complete the Project, including contracting with replacement contractor or contractors, if it is found that reasons beyond the control of either the City or Contractor make it impossible or against the City's interest to complete the Project. In such case, the Contractor shall have no claims against the City except for: (1) the actual cost for approved labor, materials, and services performed in accordance with the Contract Documents which have not otherwise been previously paid for and which are supported and documented through timesheets, invoices, receipts, or otherwise; and (2) profit and overhead of ten percent (10%) of the approved costs in item (1); and (3) termination cost of five percent (5%) of the approved costs in item (1).

6. **OCCUPATIONAL SAFETY & HEALTH.** The parties hereto agree to notify each other immediately upon becoming aware of any alleged violation of, the Occupational Safety and Health Act (OSHA) relating in any way to the Work.

7. **CONFIDENTIALITY.** Contractor shall maintain confidentiality of all information, documents, procedures, and other items Contractor encounters while performing Work to the extent allowed by law. This requirement shall survive expiration or termination of the Contract and includes sensitive municipal and personnel information.

8. **ANTI-TRUST CLAIM.** Contractor and its subcontractor(s) assign to City all rights, title, and interest to all causes of action under § 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with § 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to a contract or subcontract. This assignment shall become effective when City tenders' final payment to Contractor, without further acknowledgment.

9. **GOVERNING LAW.** The Contract shall be governed by and construed in accordance with California laws with venue in the City's County.

10. **ANTI-DISCRIMINATION.** In connection with any City Contract, there shall be no discrimination against any employee because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, sexual orientation, or military and veteran status. Contractor agrees to comply with applicable laws including, but not limited to, the California Fair Employment and Housing Act (Gov. Code § 12900 et seq.) and Labor Code § 1735. Contractor shall require like compliance by all subcontractor(s).

WHEREFORE, this First Amendment and the Agreement, together with any attachments or other documents described or incorporated therein, if any, constitute the entire agreement and understanding of the Parties, and there are no other terms or conditions, written or oral, controlling this matter.

WHEREFORE, this First Amendment may be executed on separate counterparts that, upon completion, may be assembled into and shall be construed as one document. Delivery of an executed signature page of this First Amendment by electronic means, including an attachment to an email, shall be effective as delivery of an executed original.

WHEREFORE, unless a different date is provided in this First Amendment, the effective date of this First Amendment shall be the latest date of execution set forth by the names of the signatories below.

IN WITNESS WHEREOF, this First Amendment is executed by the Parties or their duly authorized representatives as of the Effective Date.

City of Imperial	Bosch Building Technologies, LLC
_____	_____
Signature	Signature
_____	_____
Printed Name	Printed Name
_____	_____
Title	Title
_____	_____
Date	Date

Attachment "A"

Scope of Work

City Hall / Police Department

Controls

- Provide and install a new Pelican Wireless HVAC control system on the City Hall / Police Department, Community Development, and Parks and Recreation buildings.

  Scope of Work includes:
  - Disconnection and removal of the existing thermostats.
  - Installation of new Pelican Wireless network components.
  - Installation of ten (10) new wall-mounted thermostats to allow for local control and override capabilities within a pre-programmed range.
  - Installation of new control wiring as necessary.
  - Connection to the City's existing network.
  - Start-up / testing of the new system.

  Scope of Work excludes:
  - Controls for existing evaporative cooling units, ductless split system units, and/or window AC units.
  - Addition of new Wi-Fi wireless networks.
  - Integration of exterior lighting controls to the new BAS.
  - Installation of new thermostat cages/covers.

Mechanical

- Replace two (2) packaged HVAC units with new high efficiency units of similar size and capacity. Please refer to the HVAC Replacement Inventory in Attachment D for equipment size and location.

  Scope of Work includes:
  - Removal and proper disposal of the existing units per EPA guidelines.
  - Proper disposal or containment of refrigerant.
  - Installation of two (2) new packaged heat pump units. New equipment specifications will be determined upon final engineering design.
  - Necessary duct/curb modifications.
  - Disconnection/reconnection of the existing electrical service.
  - Installation of new electrical disconnects.
  - Installation of economizers per CA T24 requirements.
  - Disconnection/reconnection of existing condensate drain lines.
  - Connection to the new HVAC control system.
  - Start-up/testing of the new units.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications.
- Roofing other than repairs required for new roof curb adaptors and/or sleepers.
- Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
- Ongoing maintenance of HVAC equipment after start-up.
- Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

- Perform upgrades on one (1) existing packaged HVAC system to improve air distribution and prevent roof leaks around unit.

  Scope of Work includes:

  - Extend existing exterior roof-mounted ductwork connected to the unit (Manufacturer: ICP, Model #: RHS090H0CA0AATA, Serial #: P224467175).
  - Add two (2) new sections of supply ductwork and associated ceiling registers to the existing system.
  - Replace existing roofing under and around the existing HVAC unit and associated roof-mounted ductwork.
  - Install new roof sleepers to secure unit to roof.
  - Start-up/testing of the unit after modifications are completed.

  Scope of Work excludes:

  - Undisclosed electrical and structural upgrades/modifications.
  - Roofing other than repairs associated with the existing HVAC unit footprint.
  - Existing HVAC system deficiencies.
  - Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
  - Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

Lighting

- Retrofit existing interior T8 fluorescent, compact fluorescent (CF), and T5 fluorescent lighting systems with new high efficiency LED lighting systems. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

- Retrofit existing exterior building mounted high-intensity discharge (HID) lighting systems with new high efficiency LED lighting systems. New onboard fixture mounted occupancy sensors will be included on select fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

EV Charging

- Provide and install one (1) dual-port and Level 2 EV charging station to provide public charging capability at the City Hall. Final charger location shall be determined during final engineering design, ADA review, and utility coordination.

  Scope of Work Includes:

  - Provide and install one (1) dual-port Level 2 EV charging station beneath the new solar carport within the City Hall Parking lot in accordance with California Building Code (CBC), ADA, National Electric Code (NEC), Americans with Disability Act (ADA), and local Authority Having Jurisdiction (AHJ) requirements.
  - Obtain applicable permits and coordinate inspections associated with the EV charger installation scope.
  - Provide and install new electrical raceways, conductors, overcurrent protection devices, disconnects, grounding, and ancillary electrical components necessary to connect the EV Charging station to the designated power source, based on available electrical capacity and final engineering design.
  - Provide and install one (1) concrete pedestal foundation and associated mounting hardware to support the EV pedestal.
  - Provide ADA compliant parking stalls restriping under solar carport, in accordance with CBC and ADA requirements for:
    - (1) New Van Accessible ADA EV charging stall
    - (1) New Standard EV charging stall
  - Provide and install all ADA and EV stall signage
  - Provide and install EV charging station protection, such as wheel blocks or bollards, where required by code, manufacturer requirements, site conditions, or final design for each EV charging parking stall where applicable.
  - Concrete and/or site repairs to return work affected areas to "as-found" conditions.
  - Provide charger commissioning, activation, start-up, testing, and operational verification of the new EV charger(s).
  - Chargers' cloud subscription, network connectivity plan, and manufacturer's warranty shall be prepaid by Contractor for a period of three (3) years from commissioning. Upon expiration of the initial term, the Customer shall be solely responsible for all subscription, networking, software licensing, maintenance, and renewal costs associated with continued charger operation.

  Scope of Work excludes:

  - Undisclosed electrical and structural upgrades/modifications.
  - Upgrades, repairs, parking lot restriping, ADA improvements (unless mentioned), or additional work not associated with the EV Charger installation but required to bring existing undisclosed or unforeseen ADA and/or electrical deficiencies up to the current code.
  - Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.

- Ongoing Charger manufacturer cloud subscription, network connectivity plan, and warranty fees beyond the initial three (3) year term.

Renewables

- Provide and install a new 53.1 kW_{DC} carport-mounted solar PV system. Installation will include necessary engineering, labor, and equipment to connect the new PV system to the existing electrical meter(s). Please refer to Attachment D for additional details on scope, location, system sizing, and point(s) of interconnection.

  Scope of work includes:

  - Provide all equipment, materials, engineering, soil testing, construction, commissioning, and monitoring necessary for installation of the new solar PV system.
  - Installation of solar PV array on structural steel carports located in the parking lot of the City Hall.
  - Remove and dispose of one (1) existing exterior light fixture and associated overhead power line located within the proposed solar PV carport footprint, leaving the existing light pole in place.
  - Remove and dispose of three (3) small sized trees that coincide with proposed carport-mounted solar PV system.
  - Provide restriping for one (1) ADA Van Accessible stall and one (1) ADA Standard Accessible stall beneath the proposed solar PV carport in accordance with applicable CBC requirements.
  - Provide a new ADA path-of-travel (POT) connection from the new ADA stall(s) to nearest existing ADA POT in accordance with applicable CBC requirements.
  - Provide and install an AlsoEnergy monitoring system, including data acquisition hardware, communications equipment, and weather station. Solar Monitoring cell modem data plan shall be pre-paid by Contractor for five (5) years from system commissioning. Thereafter, Customer shall be responsible for all monitoring and cell modem subscription and renewal costs.
  - Provide and install solar PV carport underside lighting.
  - Manage utility interconnection through Permission To Operate (PTO), required interconnection documentation, including application submittal and utility coordination.

  Scope of work excludes:

  - Undisclosed electrical, structural, and utility-required upgrades/modifications.
  - Upgrades, repairs, parking lot restriping, ADA improvements, or additional work not associated with the solar PV Carport installation but required to bring existing undisclosed or unforeseen ADA and/or electrical deficiencies up to the current code.
  - Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.

- Relocation, repair, or modification of undocumented underground utilities, abandoned infrastructure, or subsurface obstructions.

Library

Controls

- Provide and install a new Pelican Wireless HVAC control system on the Library Building.

  Scope of Work includes:
  - Disconnection and removal of the existing thermostats.
  - Installation of new Pelican Wireless network components.
  - Installation of ten (10) new wall-mounted thermostats to allow for local control and override capabilities within a pre-programmed range.
  - Installation of new control wiring as necessary.
  - Connection to the City's existing network.
  - Start-up / testing of the new system.

  Scope of Work excludes:
  - Controls for existing evaporative cooling units, ductless split system units, and/or window AC units.
  - Addition of new Wi-Fi wireless networks.
  - Integration of exterior lighting controls to the new BAS.
  - Installation of new thermostat cages/covers.

Mechanical

- Replace four (4) packaged HVAC units with new high efficiency units of similar size and capacity. Please refer to the HVAC Replacement Inventory in Attachment C for equipment size and location.

  Scope of Work includes:
  - Removal and proper disposal of the existing units per EPA guidelines.
  - Proper disposal or containment of refrigerant.
  - Installation of four (4) new packaged heat pump units. New equipment specifications will be determined upon final engineering design.
  - Necessary duct/curb modifications.
  - Disconnection/reconnection of the existing electrical service.
  - Installation of new electrical disconnects.
  - Installation of economizers per CA T24 requirements.
  - Disconnection/reconnection of existing condensate drain lines.
  - Connection to the new HVAC control system.
  - Start-up/testing of the new units.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications.
- Roofing other than repairs required for new roof curb adaptors.
- Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
- Ongoing maintenance of HVAC equipment after start-up.
- Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

Lighting

- Retrofit existing interior T8 fluorescent lighting systems with new high efficiency LED lighting systems. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

EV Charging

- Provide and install two (2) single-port Level 2 EV charging stations to public charging capability at the Imperial City Library. Final charger locations shall be determined during final engineering design, ADA review, and utility coordination.

Scope of Work Includes:

- Provide and install two (2) single-port Level 2 EV charging stations beneath the new solar carport within the Imperial City Library parking lot in accordance with CBC, ADA, NEC, and local AHJ requirements.
- Obtain applicable permits and coordinate inspections associated with the EV charger installation scope.
- Provide and install new electrical raceways, conductors, overcurrent protection devices, disconnects, grounding, and ancillary electrical components necessary to connect the EV Charging station to the designated power source, based on available electrical capacity and final engineering design.
- Provide and install two (2) concrete pedestal base foundations and associated mounting hardware to support the EV pedestal.
- Provide ADA compliant parking stalls restriping under solar carport, in accordance with CBC and ADA requirements for:
  - (1) New Van Accessible ADA EV charging stall
  - (1) New Standard EV charging stall
- Provide and install all ADA and EV stall signage
- Provide and install EV charging station protection, such as wheel blocks or bollards, where required by code, manufacturer requirements, site conditions, or final design for each EV charging parking stall where applicable.
- Concrete and/or site repairs to return work affected areas to "as-found" conditions.
- Provide charger commissioning, activation, start-up, testing, and operational verification of the new EV charger(s).

- Chargers' cloud subscription, network connectivity plan, and manufacturer's warranty shall be prepaid by Contractor for a period of three (3) years from commissioning. Upon expiration of the initial term, the Customer shall be solely responsible for all subscription, networking, software licensing, maintenance, and renewal costs associated with continued charger operation.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications.
- Upgrades, repairs, parking lot restriping, ADA improvements (unless mentioned), or additional work not associated with the EV Charger installation but required to bring existing undisclosed or unforeseen ADA and/or electrical deficiencies up to the current code.
- Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.
- Ongoing Charger manufacturer cloud subscription, network connectivity plan, and warranty fees beyond the initial three (3) year term.

Renewables

- Provide and install a new 56.1 kW_{DC} carport-mounted solar PV system. Installation will include necessary engineering, labor, and equipment to connect the new PV system to the existing electrical meter(s). Please refer to Attachment D for additional details on scope, location, system sizing, and point(s) of interconnection.

  Scope of work includes:

  - Provide all equipment, materials, engineering, soil testing, construction, commissioning, and monitoring necessary for installation of the new solar PV system.
  - Installation of solar PV array on structural steel carport located in the parking lot of the City Library.
  - Remove and dispose of three (3) medium sized trees that coincide with proposed carport-mounted solar PV system.
  - Provide restriping for one (1) ADA Van Accessible stall and one (1) ADA Standard Accessible stall beneath the proposed solar PV carport in accordance with applicable CBC requirements.
  - Provide a new ADA path-of-travel (POT) connection from the new ADA stall(s) to nearest existing ADA POT in accordance with applicable CBC requirements.
  - Provide and install an AlsoEnergy monitoring system, including data acquisition hardware, communications equipment, and weather station. Solar Monitoring cell modem data plan shall be pre-paid by Contractor for five (5) years from system commissioning. Thereafter, Customer shall be responsible for all monitoring and cell modem subscription and renewal costs.
  - Provide and install solar PV carport underside lighting.

- Manage utility interconnection through PTO, required interconnection documentation, including application submittal and utility coordination

Scope of work excludes:

- Undisclosed electrical, structural, and utility-required upgrades/modifications.
- Upgrades, repairs, parking lot restriping, ADA improvements, or additional work not associated with the solar PV Carport installation but required to bring existing undisclosed or unforeseen ADA and/or electrical deficiencies up to the current code.
- Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.
- Relocation, repair, or modification of undocumented underground utilities, abandoned infrastructure, or subsurface obstructions.

Irving Park

Lighting

- Replace the existing sports field lighting fixtures with new high efficiency LED fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations.

Scope of Work includes:

- Replacement of thirty (30) existing HID lighting fixtures with new LED fixtures. New LED fixture selections will be finalized upon final engineering after photometric layout is completed.
- New web-based controls, scene selections, and dimming capabilities.

Scope of Work excludes:

- Replacement of existing light poles.
- Undisclosed electrical and structural upgrades/modifications.

Joshua Tree Park

Lighting

- Replace the existing sports field lighting fixtures with new high efficiency LED fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations.

Scope of Work includes:

- Replacement of sixty-eight (68) existing HID lighting fixtures with new LED fixtures. New LED fixture selections will be finalized upon final engineering after photometric layout is completed.
- New web-based controls, scene selections, and dimming capabilities.

Scope of Work excludes:

- Replacement of existing light poles.
- Undisclosed electrical and structural upgrades/modifications.

Wastewater Treatment Plant

Controls

- Provide and install a new Pelican Wireless HVAC control system at the Wastewater Treatment Plant.

Scope of Work includes:

- Disconnection and removal of the existing thermostats.
- Installation of new Pelican Wireless network components.
- Installation of twelve (12) new wall-mounted thermostats to allow for local control and override capabilities within a pre-programmed range.
- Installation of new control wiring as necessary.
- Connection to the City's existing network.
- Start-up / testing of the new system.

Scope of Work excludes:

- Controls for existing evaporative cooling units, ductless split system units, and/or window AC units.
- Addition of new Wi-Fi wireless networks.
- Integration of exterior lighting controls to the new BAS.
- Installation of new thermostat cages/covers.

Mechanical

- Replace one (1) wall-mounted HVAC unit with a new high efficiency unit of similar size and capacity. Please refer to the HVAC Replacement Inventory in Attachment C for equipment size and location.

Scope of Work includes:

- Removal and proper disposal of the existing units per EPA guidelines.
- Proper disposal or containment of refrigerant.
- Installation of one (1) new wall-mounted heat pump unit. New equipment specifications will be determined upon final engineering design.
- Evaporator and condenser coil coating.
- Necessary duct/curb modifications.
- Disconnection/reconnection of the existing electrical service.
- Installation of new electrical disconnects.
- Installation of economizer per CA T24 requirements.
- Disconnection/reconnection of existing condensate drain lines.

- Connection to the new HVAC control system.
- Start-up/testing of the new units.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications.
- Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
- Ongoing maintenance of HVAC equipment after start-up.
- Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

- Provide and install one (1) new split system heat pump in the Distribution Office.

Scope of Work includes:

- Installation of one (1) new high efficiency ductless split system heat pump (up to 3-ton capacity) to include a ground-mounted condensing unit with indoor fan coil unit.
- Condenser cabinet coating and condenser coil coating.
- Installation of new electrical circuit from the existing electrical service to provide power to the new unit.
- Installation of new condensate piping to an approved receptor (installation of new condensate pump as required).
- Installation of new thermostat and connection to the HVAC control system.
- Start-up/testing of the new system per manufacturer's recommendations.
- The unit selection will be determined upon completion of final engineering design.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications outside of above scope.
- Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
- Ongoing maintenance of HVAC equipment after start-up.
- Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

Lighting

- Retrofit existing interior T8 and T5 fluorescent systems with new high efficiency LED lighting systems. New dimming switches will be included on select fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

- Retrofit existing exterior HID lighting systems with new high efficiency LED lighting systems. New onboard fixture mounted occupancy sensors will be included on select fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

Renewables

- Provide and install a new 754 kW_{DC} PV shade canopy-mounted and carport-mounted solar PV systems. Installation will include necessary engineering, labor, and equipment to connect the new PV system to the existing electric meter(s). Please refer to Attachment D for additional details on scope, location, system sizing, and point(s) of interconnection.

  Scope of work includes:

  - Provide all equipment, materials, engineering, soil testing, construction, commissioning, and monitoring necessary for installation of the new solar PV systems.
  - Installation of solar PV array on structural steel carport located to the south of the property. Support columns of carport structure placed in gravel lot to the south of the property.
  - Installation of solar PV array on structural steel canopies located to the north of the property. Support columns of canopy structure(s) placed in dirt lot to the north of the property.
  - Installation of 20-foot-wide gravel fire access road adjacent to the northern solar PV shade canopy-mounted arrays, as per AHJ requirements.
  - Provide and install an AlsoEnergy monitoring system, including data acquisition hardware, communications equipment, and weather station(s). Solar Monitoring cell modem data plan shall be pre-paid by Contractor for five (5) years from system commissioning. Thereafter, Customer shall be responsible for all monitoring and cell modem subscription and renewal costs.
  - Provide and install solar PV carport and canopy underside lighting.
  - Manage utility interconnection through PTO, required interconnection documentation, including application submittal and utility coordination.

  Scope of work excludes:

  - Undisclosed electrical, structural, and utility-required upgrades/modifications.
  - Grading, drainage, or any other civil site modifications, beyond those required to construct the solar PV system(s), foundations, trenching, directional boring, and the included fire access road. Relocation, repair, or modification of undocumented underground utilities, abandoned infrastructure, or subsurface obstructions.
  - Parking lot paving, resurfacing, landscaping, drainage improvements, grading, or civil site modifications beyond those specifically identified in this scope.
  - Removal, demolition, relocation, or replacement of existing trees, light poles, fencing, underground utilities, fire protection infrastructure, debris piles, or other site improvements unless specifically identified herein.
  - Fire hydrant upgrades, fire water system modifications, or other fire protection improvements.
  - New perimeter fencing, security systems, gates, or access-control improvements.
  - Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.

- EV charging infrastructure, including chargers, pedestals, conductors, raceways, panel modifications, and associated electrical equipment.
- Hazardous materials identification, testing, remediation, abatement, handling, or disposal, including but not limited to contaminated soils, asbestos, lead-containing materials, unsuitable soils, buried debris, undocumented underground utilities, archaeological resources, or other unforeseen subsurface conditions discovered during construction.

Water Treatment Plant

Controls

- Provide and install a new Pelican Wireless HVAC control system at the Water Treatment Plant.

  Scope of Work includes:
  - Disconnection and removal of the existing thermostats.
  - Installation of new Pelican Wireless network components.
  - Installation of six (6) new wall-mounted thermostats to allow for local control and override capabilities within a pre-programmed range.
  - Installation of new control wiring as necessary.
  - Connection to the City's existing network.
  - Start-up / testing of the new system.

  Scope of Work excludes:
  - Controls for existing evaporative cooling units, ductless split system units, and/or window AC units.
  - Addition of new Wi-Fi wireless networks.
  - Integration of exterior lighting controls to the new BAS.
  - Installation of new thermostat cages/covers.

Mechanical

- Replace one (1) split system HVAC unit with a new high efficiency unit of similar size and capacity. Please refer to the HVAC Replacement Inventory in Attachment C for equipment size and location.

  Scope of Work includes:
  - Removal and proper disposal of the existing units per EPA guidelines.
  - Proper disposal or containment of refrigerant.
  - Installation of one (1) new split system unit (condensing unit and air handling unit). New equipment specifications will be determined upon final engineering design.
  - Condenser coil, evaporator coil, and cabinet coating.
  - Necessary duct modifications.
  - Disconnection/reconnection of the existing electrical service.
  - Installation of new electrical disconnects.

- Disconnection/reconnection of existing condensate drain lines.
- Connection to the new HVAC control system.
- Start-up/testing of the new units.

Scope of Work excludes:

- Undisclosed electrical and structural upgrades/modifications.
- Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
- Ongoing maintenance of HVAC equipment after start-up.
- Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

Lighting

- Retrofit existing interior T8, T12, and T5 fluorescent lighting systems with new high efficiency LED lighting systems. New dimming switches will be included on select fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

- Retrofit existing exterior pole mounted HID lighting systems with new high efficiency LED lighting systems. New onboard fixture mounted occupancy sensors will be included on select fixtures. Please see the Lighting Detail Report in Attachment B for detailed information on lighting scope, quantities, and locations. The lighting scope will be completed in compliance with CA Title 24 rules and regulations.

Renewables

- Provide and install a new 394.1 kW_{DC} PV shade canopy-mounted and carport-mounted solar PV systems. Installation will include necessary engineering, labor, and equipment to connect the new PV system to the existing electrical meter(s). Please refer to Attachment D for additional details on scope, location, system sizing, and point(s) of interconnection.

  Scope of work includes:

  - Provide all equipment, materials, engineering, soil testing, construction, commissioning, and monitoring necessary for installation of the new solar PV systems.
  - Installation of solar PV array on structural steel carport located to the east of the property. Support columns of carport structure placed in gravel lot to the east of the property.
  - Installation of solar PV array on structural steel canopies located to the west of the property. Support columns of canopy structure(s) placed in dirt lot to the west of the property.
  - Provide and install an AlsoEnergy monitoring system, including data acquisition hardware, communications equipment, and weather station(s). Solar Monitoring cell modem data plan shall be pre-paid by Contractor for five (5) years from system

commissioning. Thereafter, Customer shall be responsible for all monitoring and cell modem subscription and renewal costs.

- Provide and install solar PV carport and canopy underside lighting.
- Manage utility interconnection through PTO, required interconnection documentation, including application submittal and utility coordination.

Scope of work excludes:

- Undisclosed electrical, structural, and utility-required upgrades/modifications.
- Upgrades, repairs, parking lot restriping, ADA improvements, or additional work not associated with the solar PV Carport installation but required to bring existing undisclosed or unforeseen ADA and/or electrical deficiencies up to the current code.
- Relocation, repair, or modification of undocumented underground utilities, abandoned infrastructure, or subsurface obstructions.
- Grading, drainage, or any other civil site modifications.
- Parking lot paving, resurfacing, landscaping, drainage improvements, grading, or civil site modifications.
- Removal, demolition, relocation, or replacement of existing trees, light poles, fencing, underground utilities, fire protection infrastructure, debris piles, or other site improvements unless specifically identified herein.
- Fire hydrant upgrades, fire water system modifications, or other fire protection improvements.
- New perimeter fencing, security systems, gates, or access-control improvements.
- Customer is responsible for shutting off any main breaker(s) as required to perform the specified scope of work.
- EV charging infrastructure, including chargers, pedestals, conductors, raceways, panel modifications, and associated electrical equipment.
- Hazardous materials identification, testing, remediation, abatement, handling, or disposal, including but not limited to contaminated soils, asbestos, lead-containing materials, unsuitable soils, buried debris, undocumented underground utilities, archaeological resources, or other unforeseen subsurface conditions discovered during construction.
- Temporary removal of equipment and debris under proposed shade canopy to the west of the site. Customer to provide temporary removal services of equipment and debris under the array boundary for the duration of the project.

Pump Station (Aten Rd. Booster Pump)

Controls

- Provide and install a new Pelican Wireless HVAC control system on the Pump/Electrical building.

  Scope of Work includes:
  - Disconnection and removal of the existing thermostats.
  - Installation of new Pelican Wireless network components.
  - Installation of two (2) new wall-mounted thermostats to allow for local control and override capabilities within a pre-programmed range.
  - Installation of new control wiring as necessary.
  - Connection to the City's existing network.
  - Start-up / testing of the new system.

  Scope of Work excludes:
  - Controls for existing evaporative cooling units, ductless split system units, and/or window AC units.
  - Addition of new Wi-Fi wireless networks.
  - Integration of exterior lighting controls to the new BAS.
  - Installation of new thermostat cages/covers.

Mechanical

- Replace one (1) packaged HVAC unit with a new high efficiency unit of similar size and capacity. Please refer to the HVAC Replacement Inventory in Attachment D for equipment size and location.

  Scope of Work includes:
  - Removal and proper disposal of the existing units per EPA guidelines.
  - Proper disposal or containment of refrigerant.
  - Installation of one (1) new packaged unit. New equipment specifications will be determined upon final engineering design.
  - Necessary duct/curb modifications.
  - Disconnection/reconnection of the existing electrical service.
  - Installation of new electrical disconnect.
  - Installation of economizers per CA T24 requirements.
  - Disconnection/reconnection of existing condensate drain line.
  - Connection to the new HVAC control system.
  - Start-up/testing of the new unit.

  Scope of Work excludes:
  - Undisclosed electrical and structural upgrades/modifications.

- Provide and install one (1) new split system heat pump in the Server Room.

  Scope of Work includes:
  - Installation of one (1) new high efficiency ductless split system heat pump (up to 2-ton capacity) to include a ground-mounted condensing unit with indoor fan coil unit.
  - Installation of new electrical circuit from the existing service to provide power to the new unit.
  - Installation of new condensate piping to an approved receptor (installation of new condensate pump as required).
  - Installation of new thermostat and connection to the HVAC control system.
  - Start-up/testing of the new system per manufacturer's recommendations.
  - The unit selection will be determined upon completion of final engineering design.

  Scope of Work excludes:
  - Undisclosed electrical and structural upgrades/modifications.
  - Painting of any kind, including HVAC equipment, ductwork, piping, insulation, roof curbs, supports, and associated components.
  - Ongoing maintenance of HVAC equipment after start-up.
  - Testing, adjusting, balancing (TAB) and air test and balance (ATT) services.

Attachment "B"

Lighting Summary

Aviation Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Aviation Park :

Cambria Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Cambria Park :

City Hall / Police Dept. -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: City Hall				
1st Floor				
Rf#-1 Rm - Lobby	LED 1L rec can 6", LED ?w, n/a	18	DND - DND: (do not do, fixtures left as is)	18
Rf#-2 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	2	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	2
Rf#-3 Rm - OFFICE	LED 1L rec can 6", LED ?w, n/a	6	DND - DND: (do not do, fixtures left as is)	6
Rf#-4 Rm - HALLWAY	LED 1L rec can 6", LED ?w, n/a	10	DND - DND: (do not do, fixtures left as is)	10
Rf#-5 Rm - DIANA QUINTANA OFFICE	LED 1L rec can 6", LED ?w, n/a	4	DND - DND: (do not do, fixtures left as is)	4
Rf#-6 Rm - OFFICE	LED 1L rec can 6", LED ?w, n/a	4	DND - DND: (do not do, fixtures left as is)	4
Rf#-7 Rm - HALLWAY	1x4x 2L sm wp, F32T8 32w, electronic ballast	1	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-8 Rm - COPY ROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	1	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-9 Rm - HALLWAY	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-10 Rm - W RR	LED 1L bare bulb, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-11 Rm - M RR	LED 1L bare bulb, LED ?w A19, n/a	2	DND - DND: (do not do, fixtures left as is)	2
Rf#-12 Rm - HALLWAY	2x2x 2L rec trf (half out), LED ?w, n/a	2	RLT822Udw - (2) 2' LED T8 "U6" lamp 15w, Type B Direct wire, 50,000-Hr L70 rated life, remove existing electronic ballast	2
Rf#-13 Rm - HR OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	2	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	2
Rf#-14 Rm - STORAGE	LED 1L bare bulb, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-15 Rm - OFFICE	1x4x 2L fxt, LED ?w, n/a	2	DND - DND: (do not do, fixtures left as is)	2
Rf#-16 Rm - OPEN AREA	LED 1L rec can 6", LED ?w, n/a	13	DND - DND: (do not do, fixtures left as is)	13
Rf#-17 Rm - M RR	LED 1L sm drum, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-18 Rm - KITCKEN	LED 1L square, LED ?w A19, n/a	2	DND - DND: (do not do, fixtures left as is)	2
Rf#-19 Rm - RR	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1

City Hall / Police Dept. -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Rf#-20 Rm - OFFICE	LED 1L rec can 6", LED ?w, n/a	4	DND - DND: (do not do, fixtures left as is)	4
Rf#-21 Rm - HALLWAY	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-22 Rm - HALLWAY	LED 1L rec can 6", LED ?w, n/a	9	DND - DND: (do not do, fixtures left as is)	9
Rf#-23 Rm - HALLWAY	LED 1L bare bulb, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-24 Rm - STORAGE	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-25 Rm - STORAGE	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-26 Rm - RR	1x4x 2L sm wp, F32T8 32w, electronic ballast	2	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	2
Rf#-27 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-28 Rm - MONTIOE ROOM	1x4x 4L sm wp, F32T8 32w, electronic ballast	1	RLT844dw - (4) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-29 Rm - IT DEPT LOBBY	LED 1L rec can 6", LED ?w, n/a	7	DND - DND: (do not do, fixtures left as is)	7
Rf#-30 Rm - RAMIREZ OFFICE	LED 1L square, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-31 Rm - GILBERT OFFICE	2x2x 2L rec trf, LED ?w, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-32 Rm - ERICA OFFICE	2x2x 2L rec trf, LED ?w, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-33 Rm - LUIZ OFFICE	2x2x 2L rec trf, LED ?w, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-34 Rm - ALEXANDRO OFFICE	2x2x 2L rec trf, LED ?w, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-35 Rm - FRANKS OFFICE	2x2x 2L rec trf, LED ?w, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-36 Rm - EXTERIOR	LED 1L wm wall pack, LED 14w CC, n/a	5	DND - DND: (do not do, fixtures left as is)	5
Rf#-37 Rm - EXTERIOR	MH 1L flood, MH 250w, HID ballast	3	NL070/p/s - New LED area light, pole or bldg. mount, 70w/100w/150w selectable, CCT selectbale (Field set to 70w, 4000K) 75,000-Hr L70 rated life, on-board (BT) dimming occupancy sensor	3

Building/Area: Comm Development

1st Floor

Rf#-60 Rm - LOBBY	1x4x 2L sm wp, F32T8 32w, electronic ballast	10	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	10

City Hall / Police Dept. -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Rf#-61 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-62 Rm - COPYROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-63 Rm - KITCKEN	1x4x 2L sm wp, F32T8 32w, electronic ballast	3	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	3
Rf#-64 Rm - RR	LED 1L sm drum, LED ?w A19, n/a	2	DND - DND: (do not do, fixtures left as is)	2

Building/Area: Parks and Rec

1st Floor

Rf#-56 Rm - SHOP	1x4x 4L sm wp, FP54T5HO 54w, electronic ballast HO	4	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	4
Rf#-57 Rm - SHOP	1x4x 2L sm wp, FP54T5HO 54w, electronic ballast HO	2	RLT542Hdw - (2) 4' LED T5 lamp 25w, Type B, Direct wire, 50,000-Hr L70 rated life, remove existing electronic ballast	2
Rf#-58 Rm - STORAGE	2x4x 4L rec trf, F32T8 32w, electronic ballast	6	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on A-SSw board BT sensor	6
Rf#-59 Rm - EXTERIOR	MH 1L wm wall pack, MH 100w, HID ballast	1	NL028/wp/ft - New LED wall pack (FT), 50,000-Hr L70 rated life, 15w/25w/35w selectable, CCT selectable, (Field set to 4000K and appropriate wattage for area, photo cell if needed)	1

Building/Area: Police Dept

1st Floor

Rf#-38 Rm - HALLWAY	LED 1L rec can 6", LED ?w, n/a	17	DND - DND: (do not do, fixtures left as is)	17
Rf#-39 Rm - RECORDS	LED 1L rec can 6", LED ?w, n/a	12	DND - DND: (do not do, fixtures left as is)	12
Rf#-40 Rm - BREAKROOM	1x4x 4L sm wp, F32T8 32w, electronic ballast	1	RLT844dw - (4) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-41 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	1	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-42 Rm - CAPTAIN OFFICE	2x4x 1L rec trf panel, LED ?w, n/a	2	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on A-SSw board BT sensor	2
Rf#-43 Rm - POLICE CHIEF	LED 1L rec can 6", LED ?w, n/a	4	DND - DND: (do not do, fixtures left as is)	4
Rf#-44 Rm - KITCKEN	1x4x 4L sm wp, F32T8 32w, electronic ballast	1	RLT844dw - (4) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-45 Rm - STORAGE	CF 1L bare bulb, CFS-15w, CF ballast	1	RL091/s - (1) LED 9.5w, 120v, dimmable, A19 screw in lamp, 4000K	1
Rf#-46 Rm - CELL 1	Inc. 1L square, Inc. 75w P38, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-47 Rm - CELL2	Inc. 1L square, Inc. 75w P38, n/a	1	DND - DND: (do not do, fixtures left as is)	1

City Hall / Police Dept. -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Rf#-48 Rm - OFFICE	LED 1L rec can 6", LED ?w, n/a	4	DND - DND: (do not do, fixtures left as is)	4
Rf#-49 Rm - HALLWAY	2x4x 4L rec trf, F32T8 32w, electronic ballast	4	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on board BT sensor	4
Rf#-50 Rm - REPORT WRITING	2x4x 4L rec trf, F32T8 32w, electronic ballast	4	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on board BT sensor	4
Rf#-51 Rm - STORAGE	1x4x 2L sm wp, F32T8 32w, electronic ballast	3	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	3
Rf#-52 Rm - PORTAL ND VISION	2x4x 1L rec trf panel, LED ?w, n/a	2	DND - DND: (do not do, fixtures left as is)	2
Rf#-53 Rm - OFFICE	2x4x 4L rec trf, F32T8 32w, electronic ballast	2	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on board BT sensor	2
Rf#-54 Rm - HALLWAY	1x4x 4L sm wp, F32T8 32w, electronic ballast	1	RLT844dw - (4) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	1
Rf#-55 Rm - EXTERIOR	MH 1L wm wall pack, MH 100w, HID ballast	6	NL028/wp/ft - New LED wall pack (FT), 50,000-Hr L70 rated life, 15w/25w/35w selectable, CCT selectable, (Field set to 4000K and appropriate wattage for area, photo cell if needed)	6
Qty for City Hall / Police Dept. :		**222**		**222**

Eager Park -

PRE-RETROFIT			POST RETROFIT	
Location	**Existing Fixture Description**	**Qty**	**Retrofit Code Description (Ltg Control in RED)**	**Qty**
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Eager Park :

Evans Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Evans Park :

Fairgrounds -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any (County Utility Bill)	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior space if any (County Utility Bill)	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Fairgrounds :

Freddie White Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Freddie White Park :

Irving Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - POLE 1	MH 1L flood, sports field 3h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-2 Rm - POLE 2	MH 1L flood, sports field 3h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-3 Rm - POLE 3	MH 1L flood, sports field 3h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-4 Rm - POLE 4	MH 1L flood, sports field 3h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-5 Rm - POLE 5	MH 1L flood, sports field 2h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-6 Rm - POLE 6	MH 1L flood, sports field 2h, MH 1000w, HID ballast	3	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	3
Rf#-7 Rm - POLE 7	MH 1L flood, sports field 4h, MH 1000w, HID ballast	4	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	4
Rf#-8 Rm - POLE 8	MH 1L flood, sports field 4h, MH 1000w, HID ballast	4	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	4
Rf#-9 Rm - POLE 9	MH 1L flood, sports field 3h, MH 1000w, HID ballast	2	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	2
Rf#-10 Rm - POLE 10	MH 1L flood, sports field 3h, MH 1000w, HID ballast	2	NL688/piv - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability.	2
	Qty for Irving Park :	**30**		**30**

Joshua Tree Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - POLE 1	MH 1L flood, sports field 12h, MH 1000w, HID ballast	8	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	8
Rf#-2 Rm - POLE 2	MH 1L flood, sports field 12h, MH 1000w, HID ballast	8	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	8
Rf#-3 Rm - POLE 3	MH 1L flood, sports field 8h, MH 1000w, HID ballast	8	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	8
Rf#-4 Rm - POLE 4	MH 1L flood, sports field 6h, MH 1000w, HID ballast	6	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	6
Rf#-5 Rm - POLE 5	MH 1L flood, sports field 6h, MH 1000w, HID ballast	6	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	6
Rf#-6 Rm - POLE 6	MH 1L flood, sports field 6h, MH 1000w, HID ballast	8	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	8
Rf#-7 Rm - POLE 7	MH 1L flood, sports field 8h, MH 1000w, HID ballast	12	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	12
Rf#-8 Rm - POLE 8	MH 1L flood, sports field 8h, MH 1000w, HID ballast	12	NL688/Pjt - New LED sports flood, 640-694w, new quantity will be finalized after photometric layout is completed. Web based control. Scenes, full dimming capability	12
	Qty for Joshua Tree Park :	**68**		**68**

Library -

PRE-RETROFIT			POST RETROFIT	
Location	**Existing Fixture Description**	**Qty**	**Retrofit Code Description (Ltg Control in RED)**	**Qty**
Building/Area: All				
1st Floor				
Rf#-1 Rm - All other interior space if any	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - BACK OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	9	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	9
Rf#-3 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0
	Qty for Library :	**9**		**9**

Paseo Del Sol Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Paseo Del Sol Park :

Savannah Ranch Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Savannah Ranch Park :

Sky Ranch Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Sky Ranch Park :

Transit Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Transit Park :

Victoria Park -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Victoria Park :

Wastewater Treatment Plant -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: BOOSTER STATION				
1st Floor				
Rf#-17 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-18 Rm - ELECTRIC ROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-19 Rm - PUMP ROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	10	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	10
Rf#-20 Rm - EXTERIOR	MH 1L flood, MH 400w, HID ballast	8	NL100/p/s - New LED area light, pole or bldg. mount, 70w/100w/150w selectable, CCT selectbale (Field set to 100w, 4000K) 75,000-Hr L70 rated life, on-board (BT) dimming occupancy sensor A-consult	8
Building/Area: Ele Bldg				
1st Floor				
Rf#-8 Rm - ELECTRIC ROOM	1x4x 3L fxt, F32T8 32w, electronic ballast	4	RLT843dw - (3) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-9 Rm - BASEMENT	1X4X2 BP, F32T8 32w, electronic ballast	11	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	11
Rf#-10 Rm - STAIRS	1x4x 2L BP, FP54T5HO 54w, electronic ballast HO	2	RLT542Hdw - (2) 4' LED T5 lamp 25w, Type B, Direct wire, 50,000-Hr L70 rated life, remove existing electronic ballast	2
Building/Area: Office Bldg				
1st Floor				
Rf#-1 Rm - OFFICE	2x4x 4L rec trf, F32T8 32w, electronic ballast	4	RL025/tkit24/bts - (1) LED 2x4 rec trf kit 23w/30w/36w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 4000K, at 23w), (1) on board BT sensor A-SSw	4
Rf#-2 Rm - ELECTRIC ROOM	1x4x 3L fxt, F32T8 32w, electronic ballast	3	RLT843dw - (3) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	3
Rf#-3 Rm - OFFICE	1x4x 2L sm wp, F32T8 32w, electronic ballast	10	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	10
Rf#-4 Rm - LOCKER ROOM	1x4x 4L fxt, F32T8 32w, electronic ballast	3	RLT844dw - (4) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	3
Rf#-5 Rm - LOCKER ROOM	LED 1L bare bulb, LED ?w A19, n/a	1	DND - DND: (do not do, fixtures left as is)	1
Rf#-6 Rm - KITCKEN	1x4x 2L sm wp, F32T8 32w, electronic ballast	5	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	5
Rf#-7 Rm - EXTERIOR	MH 1L flood, MH 400w, HID ballast	6	NL100/p/s - New LED area light, pole or bldg. mount, 70w/100w/150w selectable, CCT selectbale (Field set to 100w, 4000K) 75,000-Hr L70 rated life, on-board (BT) dimming occupancy sensor A-consult	6
Building/Area: SHOP BY BOOSTER TANK				
1st Floor				
Rf#-15 Rm - ELECTRIC ROOM	1x4x 4L high bay, FP54T5HO 54w, electronic ballast HO	9	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	9
Rf#-16 Rm - EXTERIOR	MH 1L wm wall pack, MH 175w, HID ballast	5	NL028/wp/ft - New LED wall pack (FT), 50,000-Hr L70 rated life, 15w/25w/35w selectable, CCT selectable, (Field set to 4000K and appropriate wattage for area, photo cell if needed)	5
Building/Area: Street Shop				

Wastewater Treatment Plant -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
1st Floor				
Rf#-11 Rm - STREET SHOP	1x4x 2L sm wp, F32T8 32w, electronic ballast	14	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	14
Rf#-12 Rm - STREET SHOP	1x8x 2L sm strip, F96T8 59w, electronic ballast	24	NL055/8/lsx - New 8' LED narrow lensed strip fixture 38w/54w/65w selectable, CCT selectable, 70,000-Hr L70 rated life (Field set to 54w, 4000K), (1) on board BT sensor A-SSw	24
Rf#-13 Rm - PARTS	1x4x 4L high bay, FP54T5HO 54w, electronic ballast HO	6	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	6
Rf#-14 Rm - PARTS	1x4x 6L high bay, FP54T5HO 54w, electronic ballast HO	3	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	3
Qty for Wastewater Treatment Plant :		**136**		**136**

Water Treatment Plant -

PRE-RETROFIT			POST RETROFIT	
Location	Existing Fixture Description	Qty	Retrofit Code Description (Ltg Control in RED)	Qty
Building/Area: Pump Bldg				
1st Floor				
Rf#-5 Rm - PUMP PARTS	1x4x 2L sm wp, F40T12 34w, Magnetic ballast	6	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	6
Rf#-6 Rm - MAIN PUMP ROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	20	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	20
Rf#-7 Rm - ELECTRICAL ROOM	1x4x 2L sm wp, F32T8 32w, electronic ballast	4	RLT842dw - (2) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	4
Rf#-8 Rm - MIXING GALLON ROOM	1x4x 4L high bay, FP54T5HO 54w, electronic ballast HO	5	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	5
Rf#-9 Rm - EXTERIOR	HPS 1L SB area light Pole, HPS 250w, HID ballast	3	NL070/p/s - New LED area light, pole or bldg. mount, 70w/100w/150w selectable, CCT selectbale (Field set to 70w, 4000K) 75,000-Hr L70 rated life, on-board (BT) dimming occupancy sensor A-sswdbt	3
Building/Area: Shop				
1st Floor				
Rf#-1 Rm - SHOP	1x4x 3L fxt, F32T8 32w, electronic ballast	5	RLT843dw - (3) 4' LED T8 lamp 10.5w, Type B, direct wire, 50,000-Hr L70 rated life, remove existing ballast from service	5
Rf#-2 Rm - PUMP ROOM	1x4x 4L high bay, FP54T5HO 54w, electronic ballast HO	6	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	6
Rf#-3 Rm - ELECTRICAL ROOM	1x4x 4L high bay, FP54T5HO 54w, electronic ballast HO	6	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	6
Rf#-4 Rm - EXTERIOR	LED 1L jelly jat, LED ?w A19, n/a	13	DND - DND: (do not do, fixtures left as is)	13
Building/Area: Small Pump Room				
1st Floor				
Rf#-10 Rm - SMALL PUMP ROOM	1x4x 2L sm wp, FP54T5HO 54w, electronic ballast HO	2	RLT542Hdw - (2) 4' LED T5 lamp 25w, Type B, Direct wire, 50,000-Hr L70 rated life, remove existing electronic ballast	2
Rf#-11 Rm - SMALL PUMP ROOM	1x4x 6L high bay, FP54T5HO 54w, electronic ballast HO	5	NL100/hb/s - (1) LED high bay 75w/95w/100w selectable, 70,000-Hr L70 rated life (Field set to 100w), (1) BT sensor A-SSw	5
Qty for Water Treatment Plant :		**75**		**75**

Woof Town Dog Park -

PRE-RETROFIT			POST RETROFIT	
Location	**Existing Fixture Description**	**Qty**	**Retrofit Code Description (Ltg Control in RED)**	**Qty**
Building/Area: All				
1st Floor				
Rf#-1 Rm - All interior space if any	DND (do not do, left as is), n/a, n/a		DND - DND: (do not do, fixtures left as is)	0
Rf#-2 Rm - All Exterior Space	DND (do not do, left as is), LED ?w, n/a		DND - DND: (do not do, fixtures left as is)	0

Qty for Woof Town Dog Park :

Attachment "C"

HVAC Replacement Inventory

City of Imperial - HVAC Replacement Inventory

ID#	Building	Room / Area	Unit Mark / Label	Equipment	Quantity	Existing Equipment									
						Manuf.	Model No.	Serial No.	Year	Capactiy (Tons)	Electrical	Mount	Orientation (Down/Side)	Scope of Work	Additional Notes
	City Hall / Police Dept														
4	Main	Conference Room	C2	Packaged Heat Pump	1	York	XP120COON2AAA6A	N1K4103578	2014	10	208/230-3-60	Roof	Side	Replace	
6	Main	Offices	C4	Packaged Heat Pump	1	Goodman	GPH1460H41BA	1304219155	2013	5	208/230-1-60	Roof	Side	Replace	
	Library														
2	Main Bldg	Main	L2	Packaged Heat Pump	1	Rheem	R..A A060JL	illegible	2003	5	208/230-1-60	Roof	Side	Replace	
3	Main Bldg	Main	L3	Packaged Heat Pump	1	Rheem	RJMA-A036CM 000	5585F390305344	2003	3	208/230-3-60	Roof	Down	Replace	
6	Main Bldg	Main	L6	Packaged Heat Pump	1	Rheem	RQMA-A060	illegible	2003	5	208/230-3-60	Roof	Down	Replace	
7	Main Bldg	Main	L7	Packaged Heat Pump	1	York	B1HQ060A06A	N1E1047171	2011	5	208/230-1-60	Roof	Down	Replace	
	Pump Station (198 W. Aten Rd.)														
1	Pumphouse	Electrical Room	B1	Packaged AC	1	Goodman	GPC1336H41BA	1206662369	2012	3	208/230-1-60	Ground	Side	Replace	
	Water Treatment Plant														
7	Bldg South of Ponds	Pump Room		Split Sys Heat Pump	1	York	TCGD36S21S2HA	W0H8260493	2008	3	208/230-1-60	Ground		Replace	
	Wastewater Treatment Plant														
3	Bldg near Water Storage Tank	Electrical Room		Wall Mount HP	1	Bard	WA4S3-A0ZTP4XXJ	382A143092362-02	2014	4	208/230-1-60	Wall		Replace	

Attachment "D"

Solar Detail

SYSTEM LOCATION AND DESCRIPTION:

City of Imperial					
1. Site Location	*Wastewater Treatment Plant*	*Water Treatment Plant (West)*	*Water Treatment Plant (East)*	*City Hall*	*Library*
2. Point of Interconnection	*Meter # 5DY3B-204674*	*Meter # 5DY3B-202365*	*Meter # 5DY3B-202364*	*Meter # 5DY3B-201717*	*Meter # 5DY3B-400223*
3. PV System Size	*754 kW_{DC}*	*224.2 kW_{DC}*	*169.9 kW_{DC}*	*53.1 kW_{DC}*	*56.1 kW_{DC}*
4. PV Modules	*Mission Solar MSH10-590HN4G or Equal*	*Mission Solar MSH10-590HN4G or Equal*	*Mission Solar MSH10-590HN4G or Equal*	*Mission Solar MSH10-590HN4G or Equal*	*Mission Solar MSH10-590HN4G or Equal*
5. PV Inverters	*Solectria PVI or Equal*	*Solectria PVI or Equal*	*Solectria PVI or Equal*	*Solectria PVI or Equal*	*Solectria PVI or Equal*
6. PV System	*Solar Shade Canopy Structure 14' 6" Clear Height*	*Solar Shade Canopy Structure 14' 6" Clear Height*	*Solar Carport Structure 14' 6" Clear Height*	*Solar Carport Structure 13' 6" Clear Height*	*Solar Carport Structure 13' 6" Clear Height*
7. EV Chargers	*N/A*		*N/A*	*(1) Dual Port EV Charger 50A/Port or Equal*	*(2) Single Port EV Chargers 50A/Port or Equal*

The information presented in the table above is subject to adjustment depending on final design and siting. Siting locations are dependent on final survey results for underground utilities and easements.

1. *Permits and Regulatory Fees*

An allowance for building, fire and electrical permits only is included for $152,884. This amount includes City permitting, fire review, and utility application fees for all sites. All other permits/approvals are excluded.

Climatec includes durations of 16 weeks for procuring permits and regulatory approvals. Climatec will not be responsible for construction delays caused by permit and approval requirements from local jurisdictions or regulatory review bodies. Any delays in procuring permits will entitle Climatec a time extension change order to the Contract as a day for day extension to our plan for obtaining required permits and/or approvals, as defined above or in the project schedule.

2. *Utility Requirements*

The solar and EV Charger scope assumes all utility-owned electrical equipment serving the sites electrical distribution system has adequate capacity to handle the photovoltaic system output. No utility required electrical equipment upgrade or replacement is included in this scope, including design and coordination thereof.

Any costs associated with unforeseen utility interconnection requirements, including but not limited to utility-owned equipment upgrades or additions, relay protection equipment external to the inverters, additional generation or net-generation metering, system impact studies, or telemetry requirements and interconnection

studies are not included in this scope.

3. *Facility Equipment*

The existing panels are assumed to have provisions to accept cable connections on the primary side of the main service breaker, or adequate space and capacity for a new breaker. Panel or bus bar reconfiguration and/or City distribution equipment re- listing certification is not included.

Contract excludes Short-Circuit Coordination Study for this project. Climatec will provide overcurrent settings that will be coordinated with City overcurrent settings.

The solar and EV Charger scope assumes current switchboards / panelboards meet all code requirements.

Solar system includes all standard interconnection related equipment on the City side of the meter, including panel circuit breakers, utility, and/or visible utility lockable disconnect switches, solar metering, conduit, and wiring. Additional protection or upgrades required by the utilities above that provided by the certified inverters is not included.

4. *Shading*

The solar and EV charger scope design is based on existing visual conditions on site. Removal of trees or other obstructions to install the solar arrays and system components is included in this scope. Trees and/or other obstructions subsequently identified for removal or trimming by the City must be removed or trimmed, or performance expectations/guarantees will require adjustment.

5. *Commissioning*

The solar and EV charger scope assumes commissioning requirements for the solar and EV charger scope only.

6. *Monitoring*

Solar monitoring will be accomplished via Data Acquisition Systems (DAS), cell card, and Weather Station. Solar Monitoring cell modem data plan is pre-paid by Climatec for 5-years, after which the client will be required to take on data plan renewal costs into perpetuity. EV Chargers Cloud Subscription plan and warranty are pre-paid by Climatec for 3-years, after which the client will be required to take on data plan renewal costs into perpetuity. Energy Management System Integration or similar control or SCADA system integrations to the new photovoltaic array(s) is excluded. All other communication and low voltage infrastructure is excluded.

7. *Site Embedding Conditions Assumed*

A normal embed depth of 11 feet is assumed. If additional width, embed depth or spread footing is needed due to soil conditions, additional costs will be the responsibility of the client.

8. *Storage*

City shall provide Climatec with an area for storage space located near the site for storage of materials, tools and equipment, and other purposes.

9. *Exclusions*

ADA.

Scope excludes modification requirements for accessibility upgrades and accessibility design around the photovoltaic parking or shade canopy structures (unless otherwise mentioned in scope document). Assumes that the current parking lot layout has been reviewed and approved by the Authority Having Jurisdiction (AHJ). If the architect of record recommends additional accessible parking stalls under the solar canopies,

changed path of travel and/or new canopies over existing accessible stalls, in excess of those stated in the scope inclusions, design and construction costs will be addressed via Change Order.

Irrigation.

Irrigation reconfiguration if necessary to complete any foundation construction is not included.

Fire.

Fire hydrant flow tests or installation of a new fire hydrant are not included.

Civil Work.

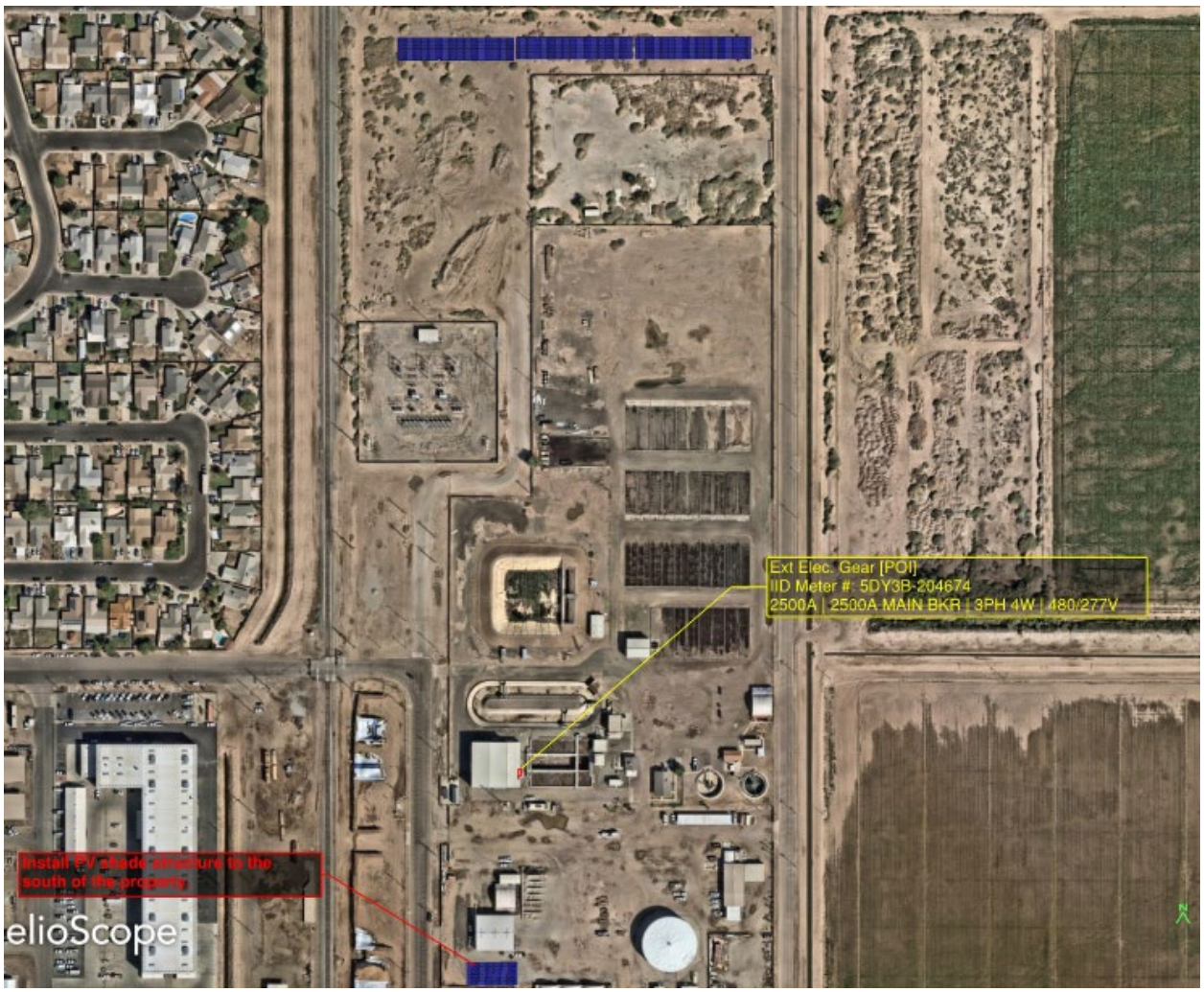
Drainage upgrades, grading upgrades, and related civil work for site lots are not included.

Hazardous Materials

Hazardous materials identification, testing, remediation, abatement, handling, or disposal, including but not limited to contaminated soils, asbestos, lead-containing materials, unsuitable soils, buried debris, undocumented underground utilities, archaeological resources, or other unforeseen subsurface conditions discovered during construction.

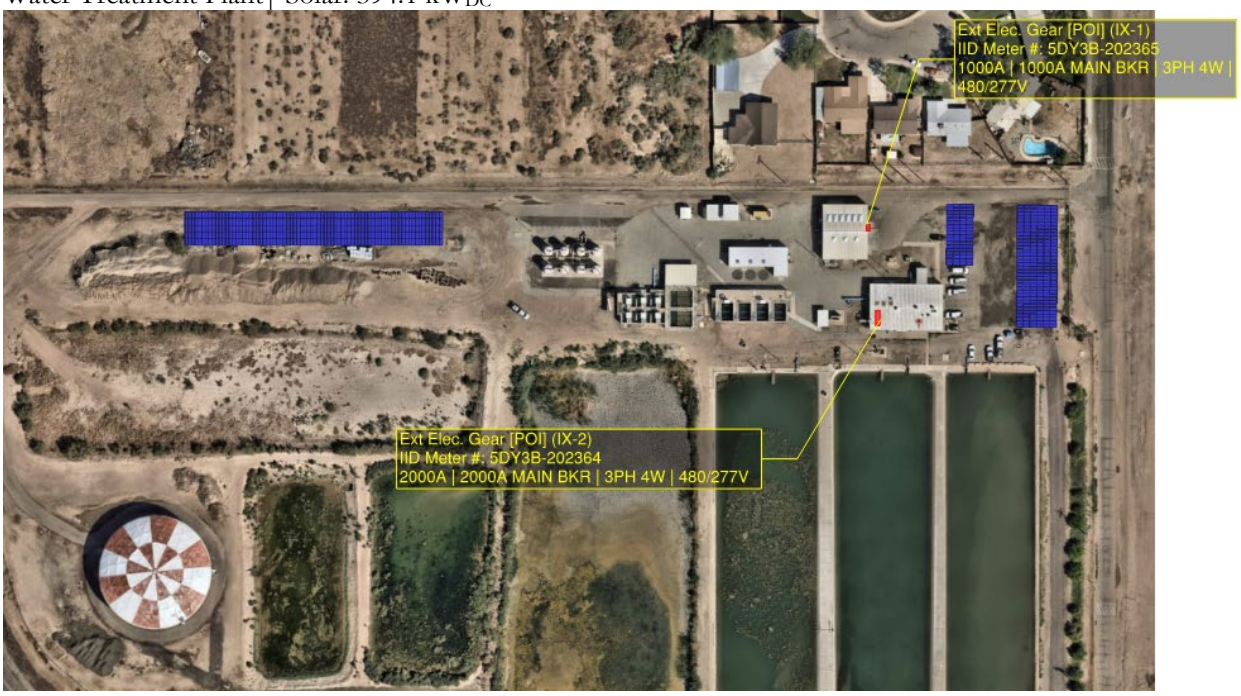
CITY OF IMPERIAL

Wastewater Treatment Plant | Solar: 754 kW_{DC}



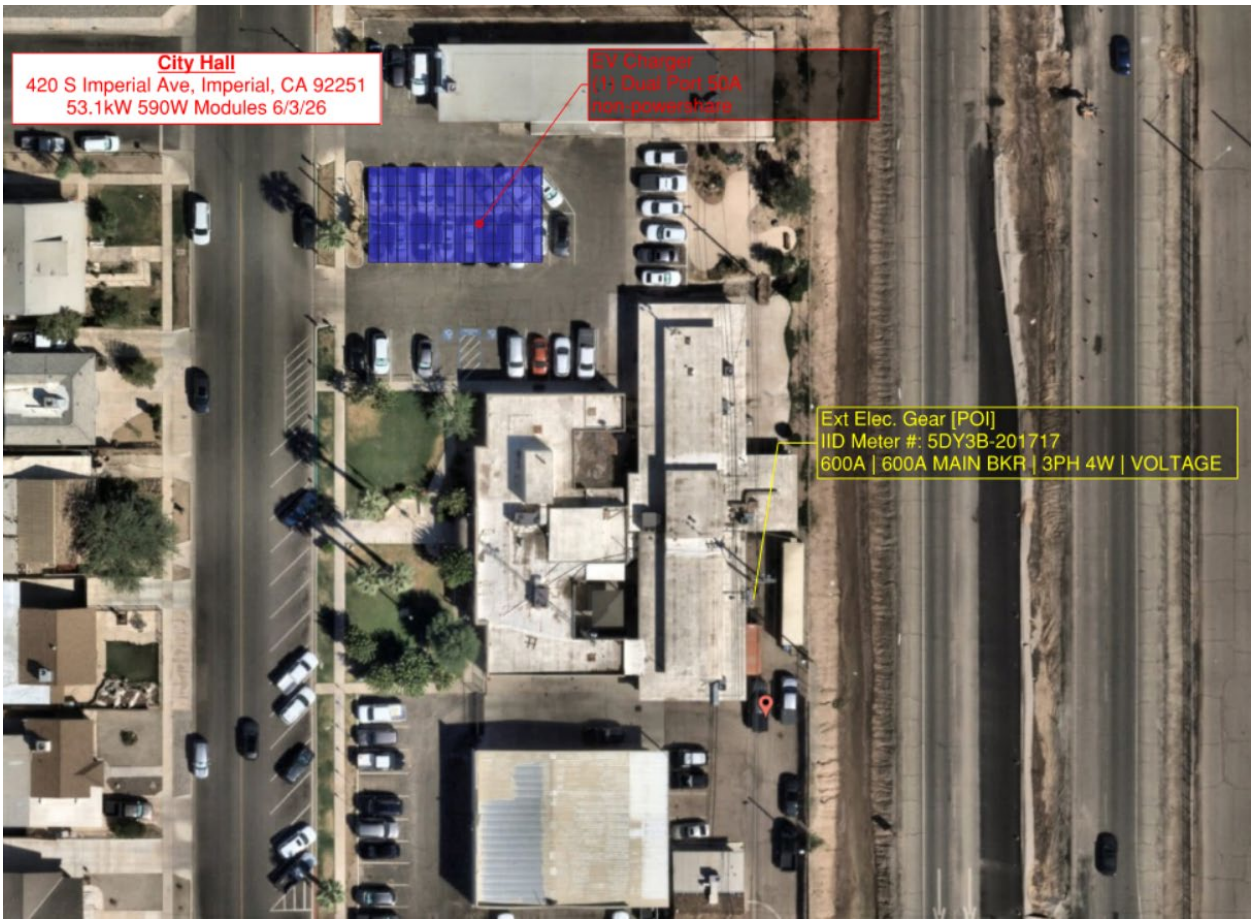
CITY OF IMPERIAL

Water Treatment Plant| Solar: 394.1 kW_{DC}



CITY OF IMPERIAL

City Hall | Solar: 53.1 kW_{DC} | Level 2 EV Chargers (50A/Port) - (1) Dual Port



CITY OF IMPERIAL
Library | Solar: 56.1 kW_{DC} | Level 2 EV Chargers (50A/Port) - (2) Single Port

Attachment "E"

Technical Appendix

MaxLite®

PROJECT NAME:_____ CAT. #: _____

NOTES:_____ FIXTURE SCHEDULE:_____

WallMax Compact Open Face Series

29W-80W

120W

Product Description

The WallMax Compact Open Face Wall Pack is a versatile low cost solution for general wall lighting applications. It features wattage and CCT selectability as well as an intergral photocell that can be turned on or off. The housing size covers existing HID footprints and has a battery backup option. You can also field install the c-Max receptacle (CEA Accessory) opening up the full range of c-Max field installable controls.

Features:

- CCT selectable between 3000K, 4000K or 5000K
- Universal Voltage: 120-277V
- Wattage Selectable in 40W+ versions
- Battery Backup Options: -20°C
- Visors & Wire guards are available
- Photocell (On/Off) Standard
- CRI: ≥80
- Field installable c-Max receptacle (CEA Accessory) to allow c-Max Controls capability
- 6kV Surge Protection

Construction:

- Rugged die cast housing with corrosion resistant polyester powder paint finish
- Impact resistant prismatic borosilicate glass
- 4 1/2 conduit holes, one on each side

Ordering Structure

FAMILY	WATTAGE (NOMINAL)	VOLTAGE	-	CCT	COLOR	CONTROLS OPTIONS	EM OPTIONS
WCF= WallMax Open Face Wall Pack	**29=** 29W **40=** 40/35/28W **60=** 60/50/40W **80=** 80/70/60W **120=** 120/100/80W	**U=** Universal 120-277V	-	**CS=** 3/4/5K **WCS=** 3/4/5K, Wattage Selectable	**B=** Dark Bronze	**PC=** Photocell (On/Off switch) Standard	**BLANK=** No Battery **E2=** Battery Backup -20°C

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID	PRIMARY USE DESIGNATION	CLASSIFICATION
111241	WCF29U-CSBPC	S-ZRQ3Y4	Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires	Premium 5.1
111059	WCF40U-WCSBPC	S-3SFTZ4		
111060	WCF60U-WCSBPC	S-0BKRJG		
111240	WCF80U-WCSBPC	S-6NXQTV		
111062	WCF120U-WCSBPC	S-4RKBVT		

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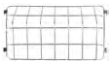
MaxLite

WallMax Compact Open Face Series

Accessories

MODEL NUMBER	ORDER CODE	DESCRIPTION	IMAGE
WCF-VISOR-SMALL	111246	VISOR FOR WCF 29-80W	
WCF-VISOR-LARGE	111247	VISOR FOR WCF 120W	
WCF-WG-SMALL	111244	WIRE GUARD FOR WCF 29-80W	
WCF-WG-LARGE	111245	WIRE GUARD FOR WCF 120W	
CEA-RDB	107785	C-MAX EXTERNAL ADAPTOR BRONZE (WHITE ALSO AVAILABLE), MUST ALSO USE WCF-WTC-CEA-GASKET, ENABLES USE OF C-MAX ROUND CONTROL NODES	
WCF-WTC-CEA-GASKET	111248	GASKET MUST BE USED WITH CEA-RDB	
EM2-REMOTE-MT	111294	FIELD INSTALLABLE REMOTE MOUNT - 20C BATTERY BACKUP (FOR UNIVERSAL (120-277V) PRODUCTS ONLY)	

Specifications:

	WCF29	WCF40	WCF60	WCF80	WCF120
Nominal Wattage (W)	29	28/35/**40**	40/50/**60**	60/70/**80**	80/100/**120**
Output (lm) - Highest setting	4,460-4730	6,220-6,550	8,620-9,480	11,950-12,840	17,470-18,470
Output (lm) - Middle setting	N/A	5,080-5,530	7,000-7,900	10,080-11,200	14,000-15,300
Output (lm) - Low setting		4,460-4730	6,220-6,550	8,620-9,480	11,950-12,840
Efficacy (lm/W)	150-159	145-158	140-158	140-160	140-153
CCT	Selectable between 3/4/5K				
CRI	>80				
Dimming	0-10V				
Power Factor	≥.90				
Input Voltage	120-277V				
Surge Protection	6kV				
Equivalency	150W	175W	250W	300/320W	400W
Lumen Maintenance (L70)	>100,000 hrs				
Operating Temperature	-40°F to 122°F (-40°C to 50°C)				
Housing	Die cast aluminum with corrosion resistant polyester powder paint finish				
Lens	Impact resistant prismatic borrosilicate glass				
Listings	UL, FCC, DLC 5.1 Premium				
Environment	Wet Locations and IP65				
Warranty	5 Year warranty. Check maxlite.com/warranties for details.				

* Default setting is hightest wattage and 5000K CCT.

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WallMax Compact Open Face Series

Dimensions

ISOFOOTCANDLE:

Each gridline represents one mounting height.

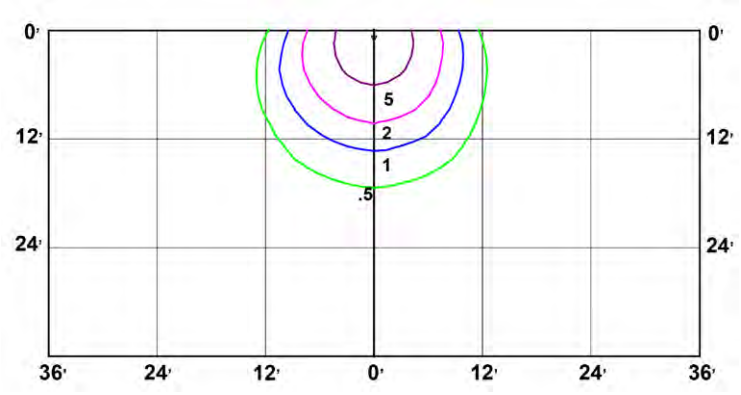
For mounting heights other than noted multiply FC by the below factor.

$$\text{Factor} = \frac{(\text{Chart's Mtg Height})^2}{(\text{Actual Mtg Height})^2}$$

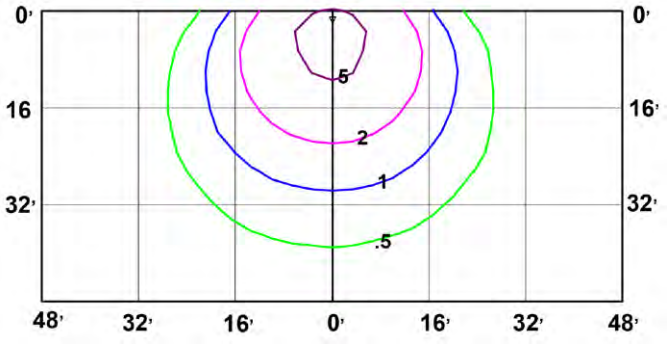
LEGEND

- 0.5 fc
- 1 fc
- 2 fc
- 5 fc

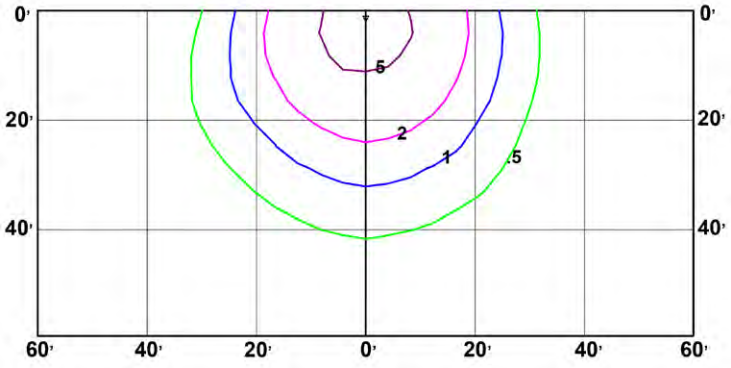
Layouts based on 3000K. Results are 3-5% more for 4000/5000K. Consult IES file for more precise calculations.



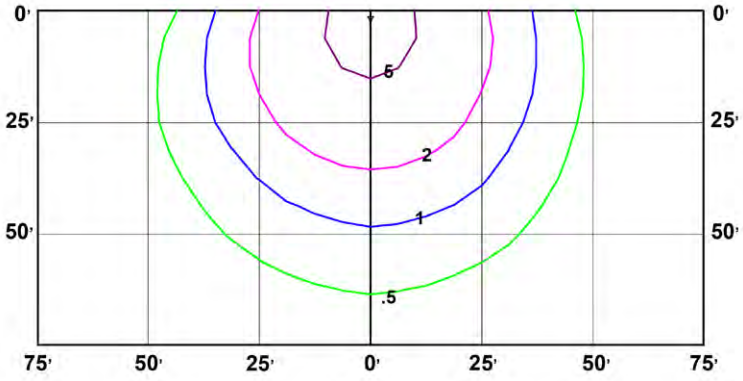
29W fc at 12' mtg height



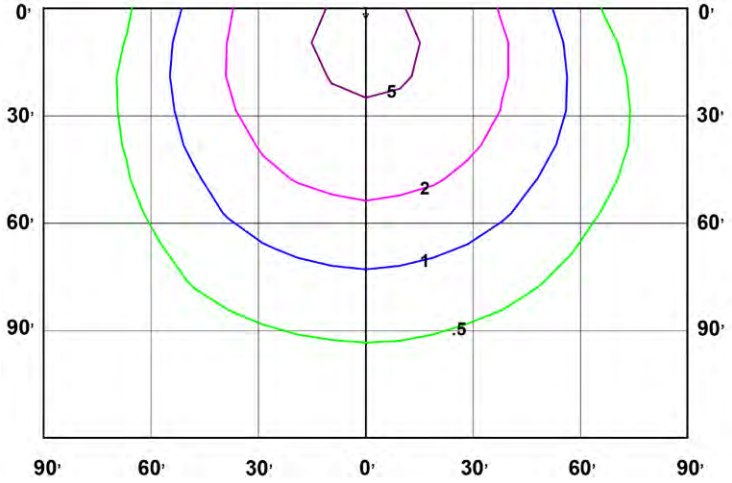
40W fc at 16' mtg height



60W fc at 20' mtg height



80W fc at 25' mtg height



120W fc at 30' mtg height

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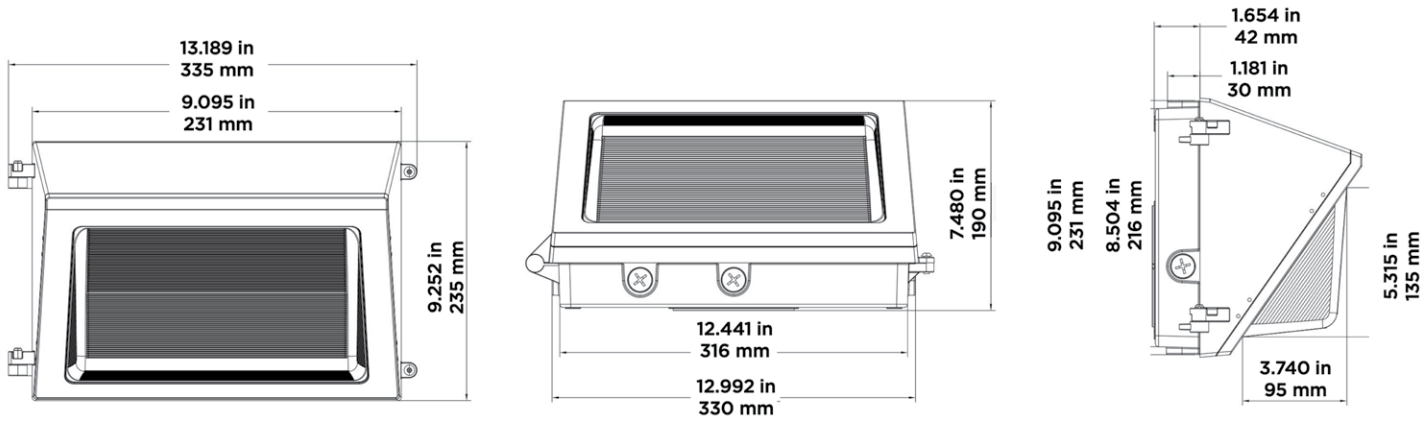
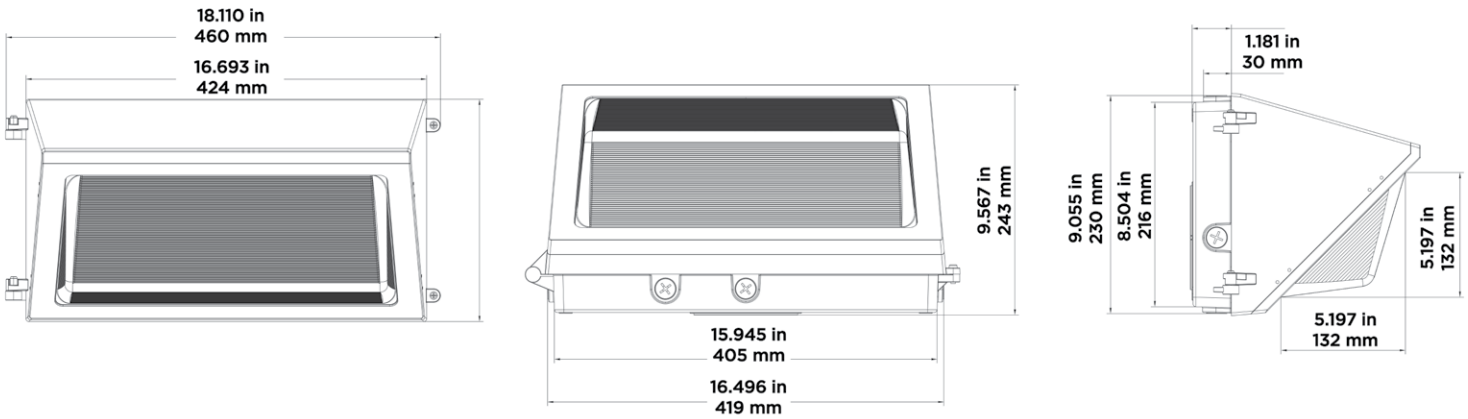
WallMax Compact Open Face Series

Dimensions

29W-80W



120W



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Project	
Notes	
Type	Date
Cat. No.	

LSX™ G5 SR/RC Series — Super Slim LED Linear Strip Luminaire

DESCRIPTION

The Aleo LSX™ SR/RC G5 Series Super Slim LED Linear Strip Luminaire delivers industry-leading performance with deep energy savings and continuous dimming. Low profile design offers easy handling and storage. This versatile luminaire produces energy-efficient, comfortable illumination for a myriad of applications.

APPLICATIONS

Excellent for general utility applications: Parking garage, warehouse, offices, restrooms, storage units, stairwell.

LSX UX SR/RC Series

4’ 40W Max.
8’ 65W, 90W Max.

Specification Features

Construction
Integral LED gear tray and reflector with driver on board allows for easy installation and handling. Luminaire features a white durable finish. Diffuser requires no additional frame or fastener for easy installation.

Optical System
Reflector systems features highly reflective coating and delivers balanced, comfortable luminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Certification
UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2. DLC Premium.

Warranty
7-year Limited Warranty. See warranty documentation for more information.

Electrical
Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Installation / Mounting
Strip can be suspended or surface mounted via mounting brackets.

Controls / Dimming
Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance. Features a built-in sensor box as a standard for plug and play sensors.

Field Adjustable CCT
Increased versatility and reduced inventory burden. Color Temp. can be adjusted in the field by selecting (3) different CCTs via switch on driver.

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 130 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Quick Ship

LSX-4-UXH-40/8CT G5-SB (SR/RC)
LSX-8-UXH-65/8CT G5-SB (SR/RC)

Ordering Information

Example: LSX-8-UXH-65/8CT G5-SB (SR/RC)

LSX	8	UXVH	65	8	CT	[Blank]
Series	**Form Factor**	**Lumen Package**	**Max Wattage**	**CRI**	**Color Temp**	**Dimming**
LSX Super Slim LED Linear Strip	**4** 4’ **8** 8’	**UXH** Factory Set	**40** 4’ - 25W/30W/40W **65** 8’ - 55W/60W/65W	**8** 82+	**CT** Field Adjust. 3500K 4000K 5000K	**Blank** 0-10V Continuous Dimming

Options

-SB (SR/RC)
Integral Sensor Box and Receptacle

Controls*
See Pg. 3 for details on sensors and controls
(Sensor Sold Separately)

Emergency Backup[1]
EM700 700lm
EM1400 1400lm
EMLC/DR Emergency Lighting Control Dimming Relay

Designation
BAA
Buy American Act Compliant
BABAA
Build America, Buy America Act Compliant

Specifications and Dimensions subject to change without notice.

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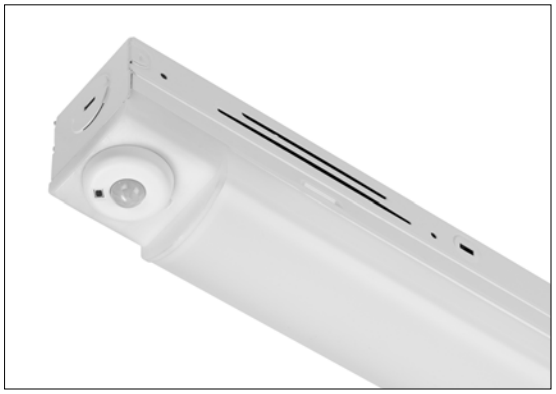
Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	82+, R9 > 0
Available CCT[1]	3500K/4000K/5000K
Color Consistency[2]	5-step MacAdam Ellipse
Rated Life	75,000 hours
L70[3]	> 72,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20ºC to 50ºC



Sensor Plug and Play - Field Install

aleoblue™

Plug and Play Sensor

Model No. **SPIR-OSDL/BT-PP3-DC220**

AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting, snap-in with quick connector

Performance Data

				3500K		4000K		5000K	
Form Factor	Catalog No.	Rated Wattage (W)	Tested Wattage (W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)	Delivered Lumens (lm)	Efficacy (lm/W)
4’	LSX-4-UXH-40/8CT G5-SB (SR/RC)	25	24	3575	143	3925	157	3650	146
		30	29	4230	141	4650	155	4320	144
		40	39	5400	135	5920	148	5520	138
8’	LSX-8-UXH-65/8CT G5-SB (SR/RC)	55	56	7810	142	8525	155	7975	145
		60	61	8220	137	9000	150	8400	140
		65	66	8775	135	9620	148	8970	138

[1] IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

Specifications and Dimensions subject to change without notice.

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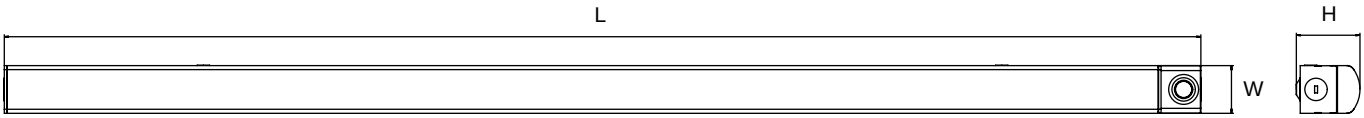
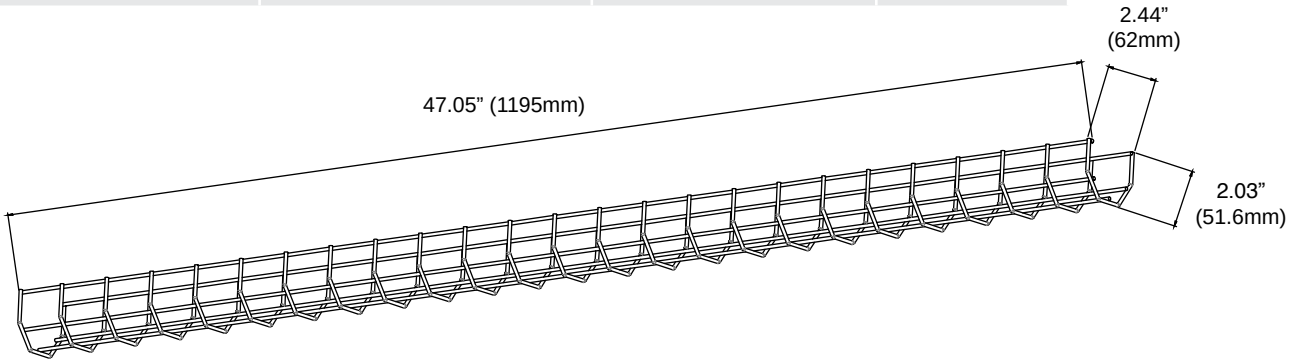
Product Dimensions



Form Factor	Length (L)	Height (H)	Width (W)
4’	47.3” (1202mm)	2.4” (60mm)	1.8” (48mm)
8’	94.2” (2392mm)	2.4” (60mm)	1.8” (48mm)

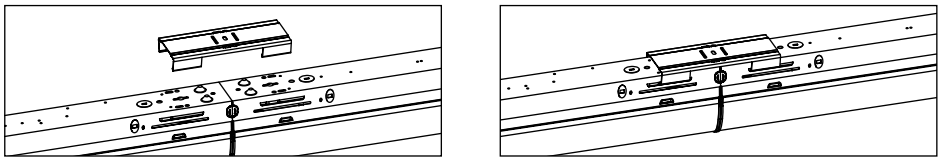
Wire Guard Option

Catalog No.	Description	Ordering	Shipping
LSX-WG-4 G5	Wire Guard for LSX-4 G5	Order and Ship Separately	Field Install



Daisy Chain Bracket Option

Catalog No.	Description	Ordering	Shipping
LSX-DC-BRK G5	Daisy Chain Bracket for LSX G5	Order and Ship Separately	Field Install



Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control	Sensor Mounting
SPIR-OSDL/BT-PP3-DC220	AleoBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	AleoBlue App	Sensor Box / End-mount
SPIR-OSDL/BTEZ-PP3-DC-101	SimplBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	SimplBlue App	Sensor Box / End-mount

Specifications and Dimensions subject to change without notice.

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Surge Protector Option

Catalog No.	Description	Ordering	Shipping
SP10	10kA Surge Protector	Order with Model No.	Factory Installed

Cord Set Options

Catalog No.	Description	Ordering	Shipping
CRD-A	SO CORD 6’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-B	SO CORD 10’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-C	SO CORD 12’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-D	SO CORD 15’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-E	SO CORD 20’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-F	SO CORD 25’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field

Plug Options

Catalog No.	Description	Ordering	Shipping
PLG-1	Straight plug, 125V, NEMA 5-15P	Order with Model No.	Factory Installed
PLG-2	Twist-lock, 125V, NEMA L5-15P	Order with Model No.	Factory Installed
PLG-4	Twist-lock, 277V, NEMA L7-15P	Order with Model No.	Factory Installed
PLG-5	Twist-lock, 480V, NEMA L8-20P	Order with Model No.	Factory Installed
PLG-6	Twist-lock, 250V, NEMA L6-15P	Order with Model No.	Factory Installed

Mounting Options

Catalog No.	Description	Ordering	Shipping
CHS-105	Jack chain, 40" length (Set of 2)	Order and Ship Separately	Field Install
V-HOOK-LLS	V-hangers, 2 pcs of top mount fixture hangers .135DIA	Order and Ship Separately	Field Install
ACC	Aircraft Cable - 10’ 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install
ACC-20ft	Aircraft Cable - 20’ 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install
ACC-25ft	Aircraft Cable - 25’ 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install

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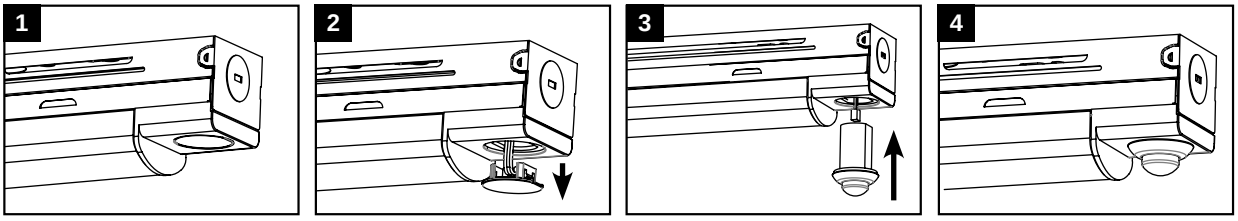
Sensor Installation

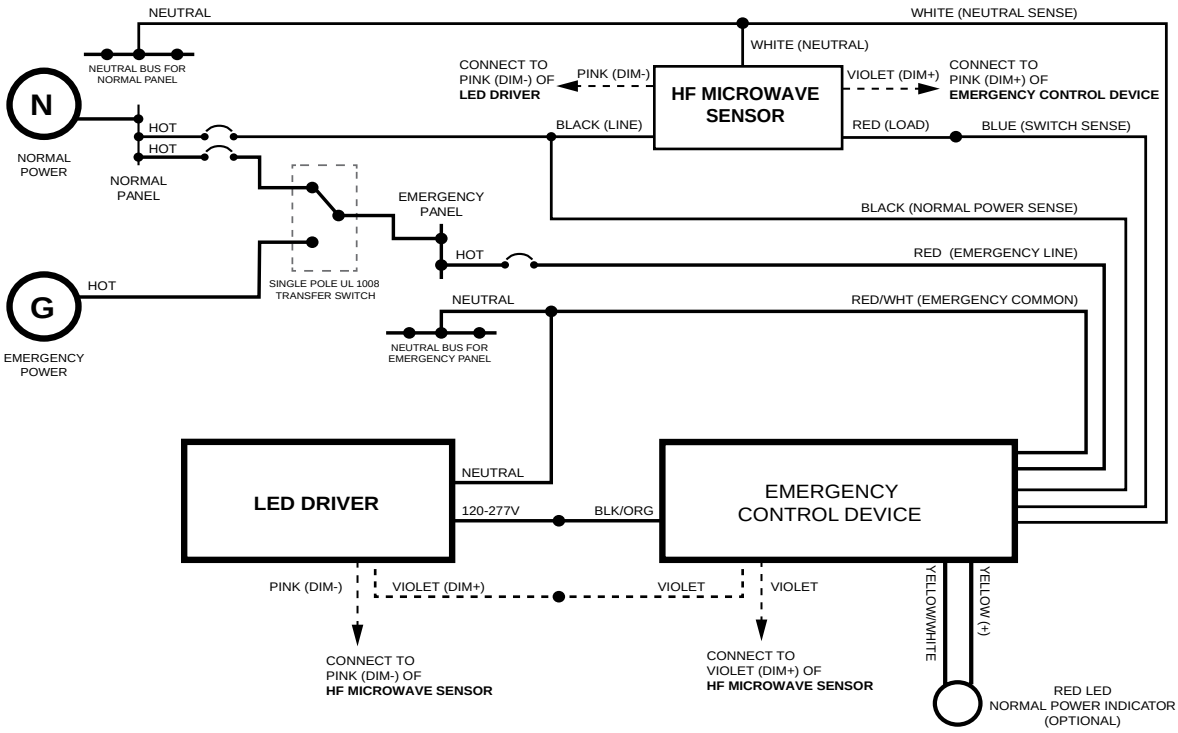


1	2	3	4
Locate the sensor cap.	Remove the sensor cap. Sensor wiring harness connector is attached to the cap.	Mate the wiring harness connector with the connector on the sensor and push, ensure solid connection. Push and lock the sensor into the fixture hole.	Secure the sensor. If necessary, use lock nut.

EMLC/DR - Emergency Lighting Control Dimming Relay (EMLC/DR) Option

Allows full brightness operation of the luminaire from the generator or inverter, regardless of local controls/sensor settings. Senses the loss of normal AC power and bypasses the local switch device or dimmed setting, allowing emergency power directly to the fixture.

TYPICAL WIRING DIAGRAM - Separately Derived System (Switched Neutral)



BAA and BABAA Compliant

BAA COMPLIANT

BAA - Buy America Act Compliant

Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

BABAA - Build America, Buy America Compliant

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

*Note: BAA and BABAA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information

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Learn More

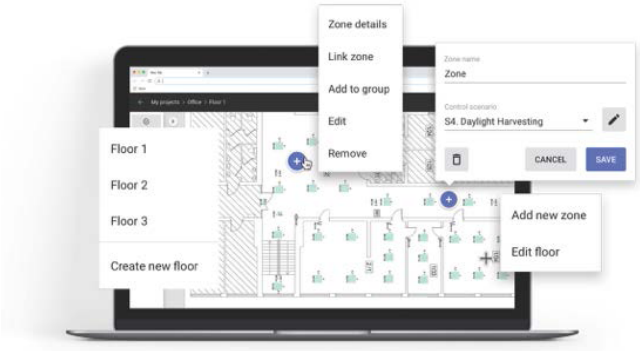
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

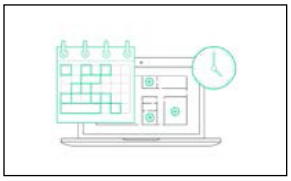
Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

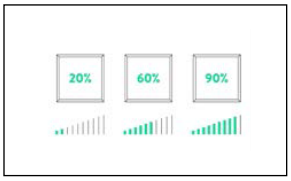


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

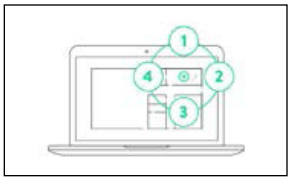
Scheduling



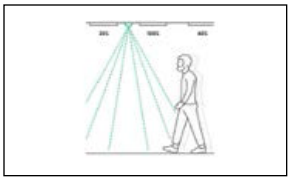
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

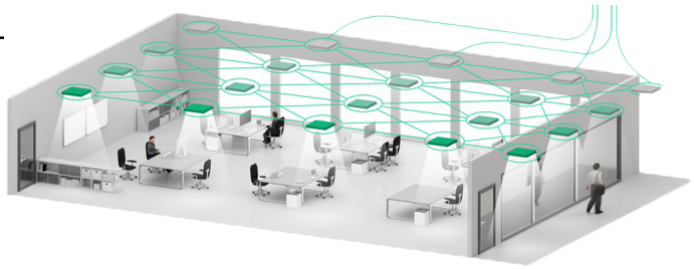
The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication

No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



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Learn More

Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios

Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth mesh compatible app.

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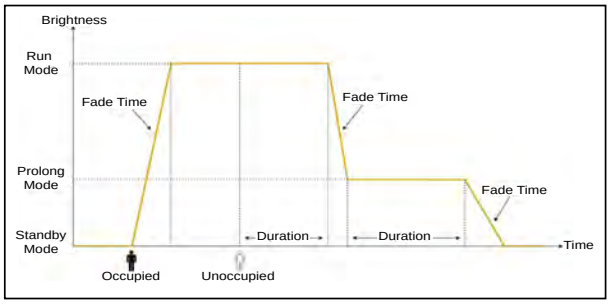
Lighting Control Scenarios

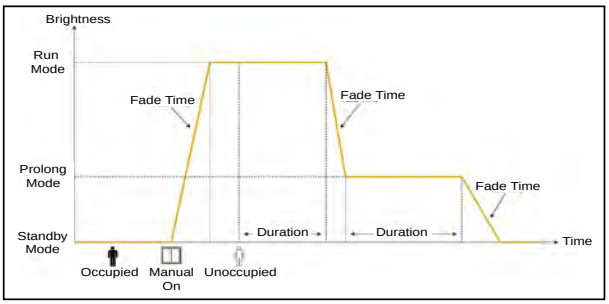
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

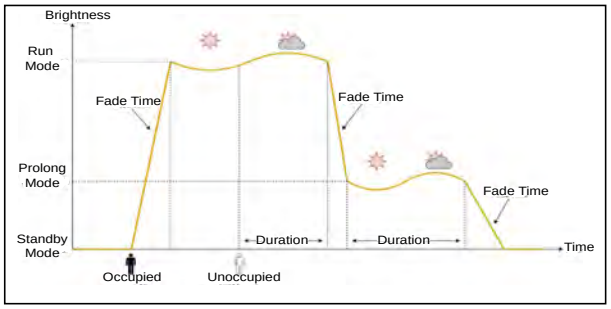
Occupancy Scenario



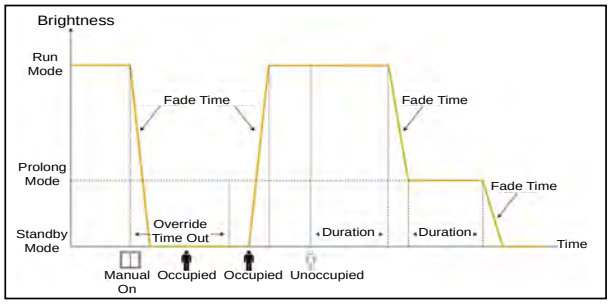
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



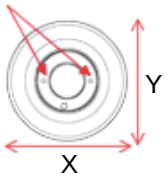
Occupancy Scenario with Manual Override

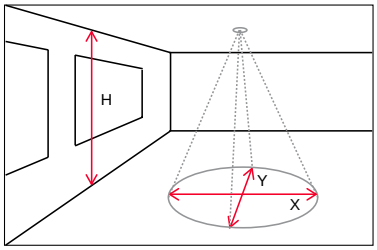


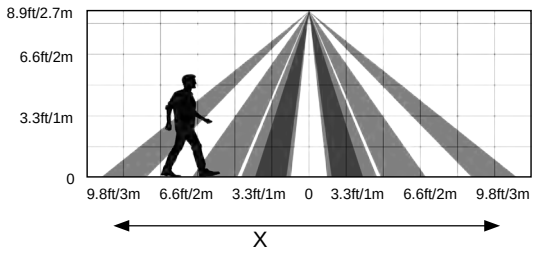
Occupancy Detection Pattern

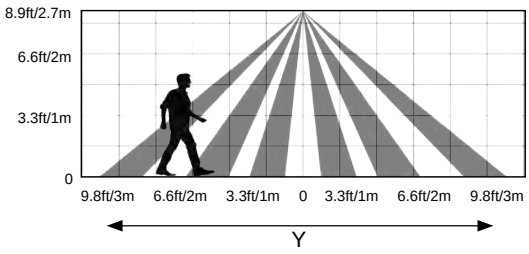
H	X	Y
7.9' (2.4m)	16.4' (5.0m)	16.4' (5.0m)
8.9' (2.7m)	18.4' (5.6m)	18.4' (5.6m)
9.8' (3.0m)	20.3' (6.2m)	20.3' (6.2m)

Orientation Indicators









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Ph: 877-358-8825

aleo™ LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

ALX™ Series — LED Area Luminaire

DESCRIPTION

The Aleo ALX™ Series combines energy-efficiency, advanced optical control, and modern slim profile aesthetics to deliver enhanced performance to area lighting applications. Rugged die-cast housing provides advanced thermal management for long life and weather-proof compartment to withstand challenging, outdoor environments.

APPLICATIONS

Parking lots, walkways, auto dealerships, outdoor retail shopping centers, recreational spaces, campuses.

WET LOCATION RATED · DLC LISTED PREMIUM · UL CERTIFIED · 7 LIMITED WARRANTY · aleoblue

ALX™ Series

150W, 300W

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 160 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Specification Features

Construction
Rugged, die-cast housing with advanced thermal management system ensures reliability and durability. Weather-proof, gasketed driver compartment protects electronics against environmental elements.

Optical System
Precision-formed optical lens system reduces glare and improves safety and security by delivering high-efficiency illumination with precise optical distribution. Type III distribution comes standard. Type II, III, IV and V available.

Certification
UL Listed. All components have UL certification.
DLC QPL Premium.

Warranty
7-year Limited Warranty. See warranty documentation for more information.

Electrical
Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features universal voltage (120-277V) and high voltage (227-480V) for convenient installation.

Installation / Mounting
Luminaire comes standard with universal mounting adapter. Versatile platform includes different mounting options, including: straight arm, trunion, slip-fitter, yoke mount and rotatable pole-mount.

Controls / Dimming
Suitable for use with sensors and photocells to achieve deeper energy-savings and code compliance. Comes standard with receptacle for plug and play occupancy sensor or photocell.

Field Adjustable CCT / Wattage
Increased versatility and reduced inventory burden. Wattage and Color Temp. can be adjusted in the field by selecting (3) different wattages and (3) different CCTs via switch outside the housing.

Quick Ship

ALX-150UX/CT (SR/RC)
ALX-300UX/CT (SR/RC)
ALX-150UX/CT HV (SR/RC)
ALX-300UX/CT HV (SR/RC)
ALX-150UX/CT (SR/RC) WH
ALX-300UX/CT (SR/RC) WH

Ordering Information

Example: ALX-150UX/CT HV (SR/RC)

ALX	150	UX	CT	HV	Options

Series
ALX
Slim LED Area Luminaire

Nominal Wattage
150
70W/100W/150W
300
200W/250W/300W

Lumen Package
UX Field Adjustable Wattage

Color Temp
CT
Adjustable CCT 3000K/ 4000K/ 5000K
AMBR[1]
Amber Spectrum

Input Voltage
Blank
120V-277V
HV
277V-480V

(SR/RC)
Sensor Ready w/ Sensor Receptacle

Controls
See pg. 6 for details

Designation
BAA
Buy American Act Compliant
BABAA
Build America, Buy America Act Compliant

[Blank]	[Blank]	[Blank]

Distribution Type

Blank	Type III	**T4**	Type IV
T2	Type II	**T5**	Type V

Any distribution type other than Type III is a custom optic with associated adder cost and lead time

Mounting (Sold Separately)

ALX-ASA	Straight Arm
ALX-ASA ECO	Straight Arm
ALX-ASF	Slip Fitter
ALX-ASR	Rotatable Straight Arm
ALX-AUB	Adjustable Trunnion
ALX-YOK-S	Yoke Mount (Small)
ALX-YOK-L	Yoke Mount (Large)

Finish Color*

Blank	Dark Bronze	RAL#8019
WH	White	RAL#9016

* Contact Factory for additional finish colors. Any finish color other than Dark Bronze and White is a custom color with associated adder cost and lead time

[1] Made to order option with associated lead time. Not stocked as Quick Ship.

Specifications and Dimensions subject to change without notice.

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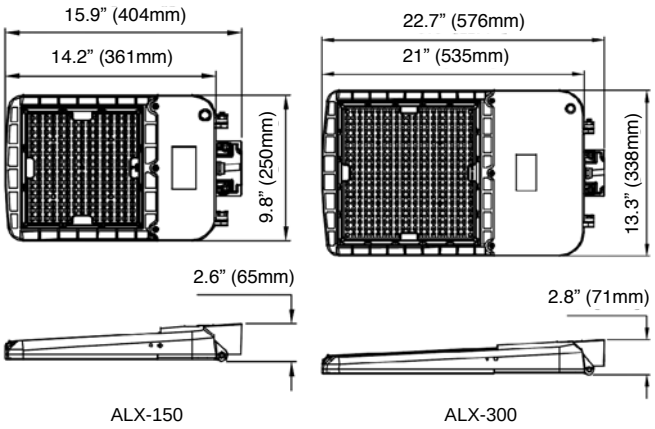
Performance Summary

Input Voltage	120V-277V, 277V-480V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 130 LPW (typ.)
CRI	70+
Available CCT	3000K/4000K/5000K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Controls	Plug N Play Sensors
IP Rating	IP65
Operating Temp.	-40°C to 45°C
Surge Protection	6KV

Product Dimensions



ALX-150 ALX-300

Performance Data

Catalog No.	Nominal Wattage (W)	Tested Wattage (W)	3000K Delivered Lumens (lm)	3000K Scaled Efficacy (lm/W)	4000K Delivered Lumens (lm)	4000K Scaled Efficacy (lm/W)	5000K Delivered Lumens (lm)	5000K Scaled Efficacy (lm/W)
ALX-150UX/CT (SR/RC)	70	67.4	9,436	140	10,608	157.4	9,887	146.7
	100	96.3	13,347	138.6	15,003	155.8	13,982	145.2
	150	144.5	19,825	137.2	22,296	154.3	20,779	143.8
ALX-150UX/CT HV (SR/RC)	70	66.6	9,410	141.3	10,622	159.5	10,316	154.9
	100	95.2	13,318	139.9	15,032	157.9	14,603	153.4
	150	142.8	19,777	138.5	22,319	156.3	21,691	151.9
ALX-300UX/CT (SR/RC)	200	201.1	27,570	137.1	30,506	151.7	28,355	141
	240	241.3	32,744	135.7	36,243	150.2	33,685	139.6
	300	301.6	40,535	134.4	44,847	148.7	41,681	138.2
ALX-300UX/CT HV (SR/RC)	200	197.1	26,805	136	30,176	153.1	29,742	150.9
	240	236.5	31,856	134.7	35,853	151.6	35,333	149.4
	300	295.6	39,433	133.4	44,369	150.1	43,719	147.9

*Sensor placement may vary

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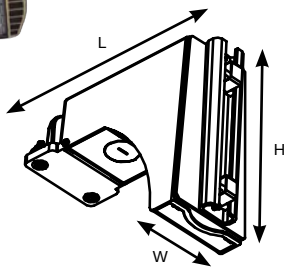
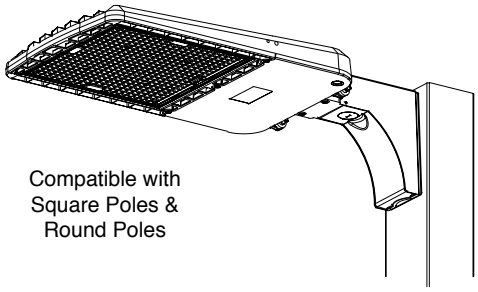
Mounting Information

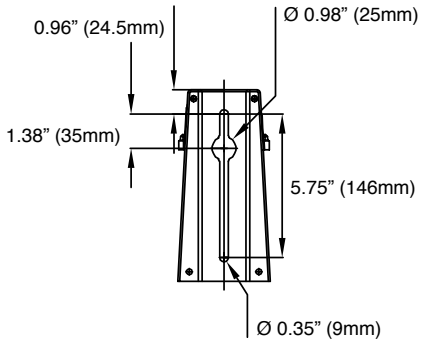
Straight Arm Mount



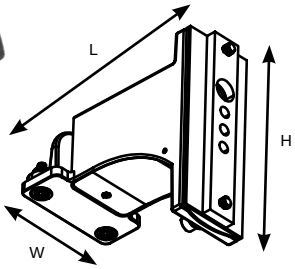
Catalog No.	L	W	H
ALX-ASA	9.14” (232.1mm)	3.7” (94mm)	7.68” (195mm)



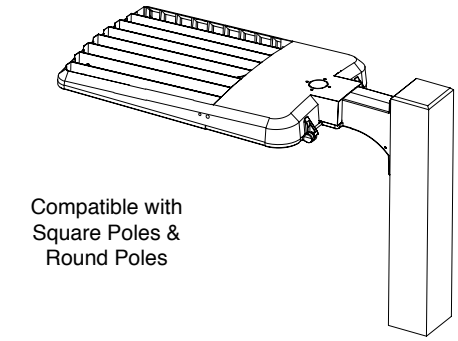
Drill Pattern **ALX-ASA**



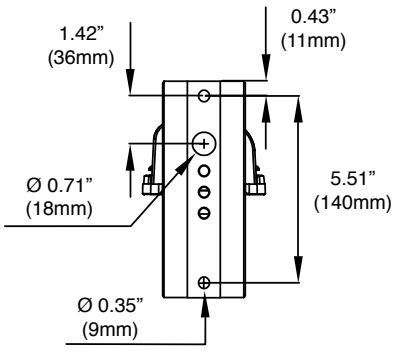
Straight Arm Mount ECO



Catalog No.	L	W	H
ALX-ASA ECO	6.59” (167.3mm)	3.62” (92.1mm)	6.38” (162mm)



Drill Pattern **ALX-ASA ECO**



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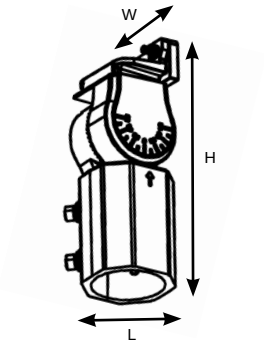
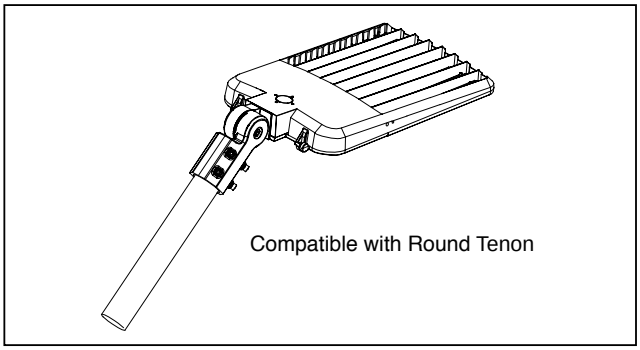
Mounting Information

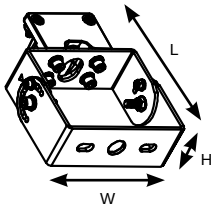
Slip Fitter

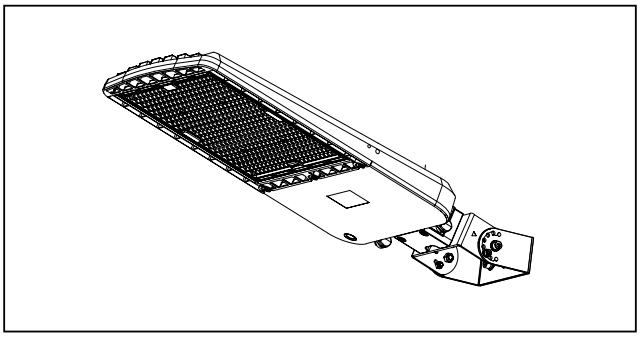




Catalog No.	L	W	H
ALX-ASF	3.07” (78mm)	3.59” (91.2mm)	9.1” (231mm)

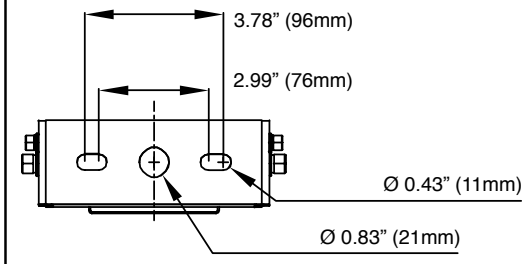
U-Bracket Trunion





Catalog No.	L	W	H
ALX-AUB	7.36” (186.9mm)	6.3” (160mm)	2.55 (62mm)

Drill Pattern **ALX-AUB**



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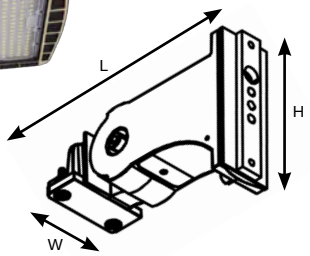
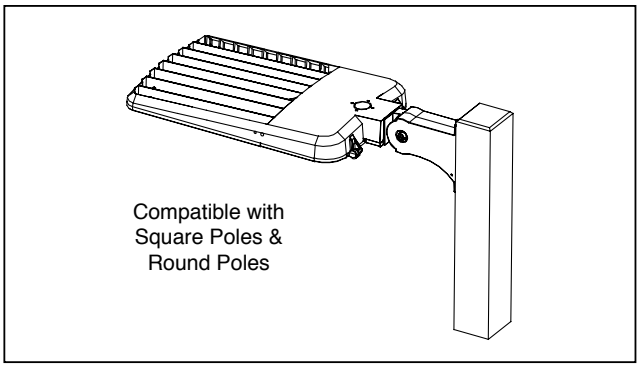
Mounting Information

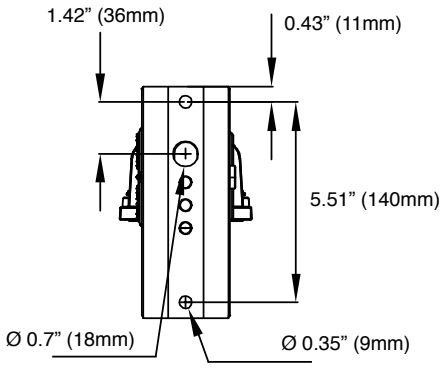
Rotatable Pole-Mount



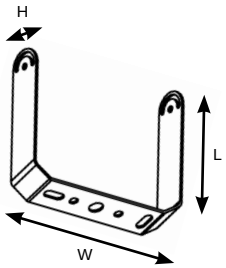
Catalog No.	L	W	H
ALX-ASR	9.34” (237.2mm)	3.62” (92.2mm)	6.38” (162mm)



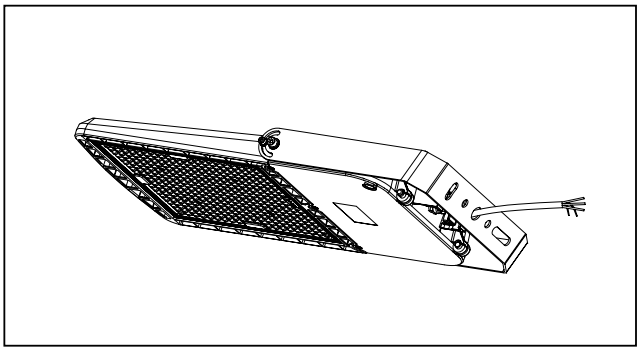
Drill Pattern ALX-ASR



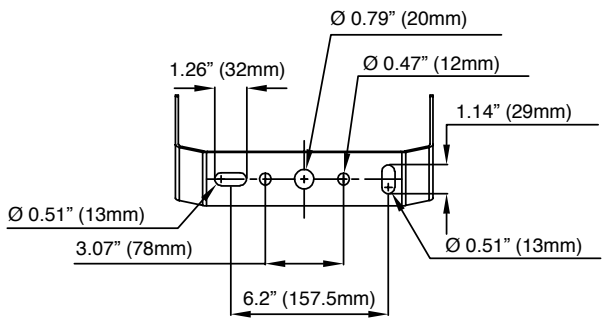
Yoke Mount



Catalog No.	L	W	H
ALX-YOK-S	8.19” (208mm)	10.12” (257mm)	1.97” (50mm)
ALX-YOK-L	11.54” (293mm)	13.58” (345mm)	1.97” (50mm)



Drill Pattern ALX-YOK-S, ALX-YOK-L



Specifications and Dimensions subject to change without notice.

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EPA Rating

	1	2 @ 90°	2 @ 180°	3 @ 120°	3 @ 90°	4 @ 90°
Mounting	**Product**	**EPA Rating**					
ALX-ASF	ALX-150	0.47	0.68	0.95	1.26	1.15	1.15
	ALX-300	0.68	1.18	1.37	1.98	1.86	1.86
ALX-ASR	ALX-150	0.58	0.79	1.18	1.58	1.39	1.39
	ALX-300	0.81	1.11	1.65	2.16	1.95	1.95
ALX-ASA	ALX-150	0.54	0.74	1.02	1.33	1.21	1.21
	ALX-300	0.74	1.24	1.46	2.04	1.92	1.92
ALX-ASA ECO	ALX-150	0.49	0.69	0.98	1.29	1.18	1.18
	ALX-300	0.71	1.12	1.42	1.93	1.81	1.81

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
ALX-150UX/CT (SR/RC)	S-TFOE8Z	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-150UX/CT HV (SR/RC)	S-CPNR5Q	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-300UX/CT (SR/RC)	S-1GCORK	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires
ALX-300UX/CT HV (SR/RC)	S-5V273G	5.1	Premium	Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Control and Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control
SHF-OSDL/IR-PP1-LV-10V-A01	Multi-level High Frequency Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
SPIR-OSDL/IR-PP1-DC-130	Multi-level Passive Infrared Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
SPIR-OSDL/BT-PP1-DC-302-BLK	AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting, 12V DC input, Plug and Play 3.5mm port, 40ft high bay lens, 300ft range, Black	Order Separately	Field Installed (Plug/Play)	AleoBlue App
PC-PP1-DC300	Photocell Sensor, Plug and Play 3.5mm port	Order Separately	Field Installed (Plug/Play)	-

*Any exterior lighting design with AleoBlue controls should be reviewed by Aleo's technical team to ensure proper mesh network quality, unless previously trained by Aleo. Please send designs to tech.support@aleolighting.com

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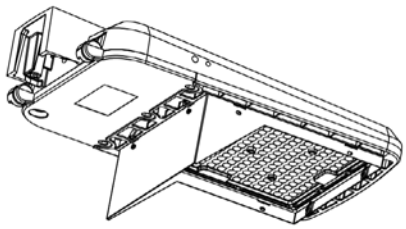
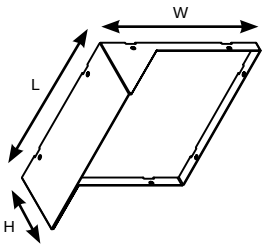
Backshield Options

Catalog No.	Description	Ordering	Shipping
ALX-BKSHLD-S	Area Light Glare Shield Accessory Kit for ALX Series, 150W. Dark Bronze	Order Separately	Field Installed
ALX-BKSHLD-L	Area Light Glare Shield Accessory Kit, for ALX Series, 300W. Dark Bronze	Order Separately	Field Installed



Catalog No.	L	W	H
ALX-BKSHLD-S	8.35” (212mm)	8.35” (212mm)	3.15” (80mm)
ALX-BKSHLD-L	11.65” (296mm)	11.65” (296mm)	3.15” (80mm)



BAA and BABAA Compliant

BAA COMPLIANT

BAA - Buy America Act Compliant

Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

BABAA - Build America, Buy America Compliant

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

*Note: BAA and BABAA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information

BUG Rating

Model No.	System Watts	Dist. Type	B	U	G
ALX-150UX/CT	70W/100W/150W	II	4	0	4
ALX-300UX/CT	200W/250W/300W	II	5	0	5
ALX-150UX/CT	70W/100W/150W	III	3	0	3
ALX-300UX/CT	200W/250W/300W	III	4	0	4
ALX-150UX/CT	70W/100W/150W	IV	3	0	3
ALX-300UX/CT	200W/250W/300W	IV	5	0	4
ALX-150UX/CT	70W/100W/150W	V	4	0	4
ALX-300UX/CT	200W/250W/300W	V	5	0	5

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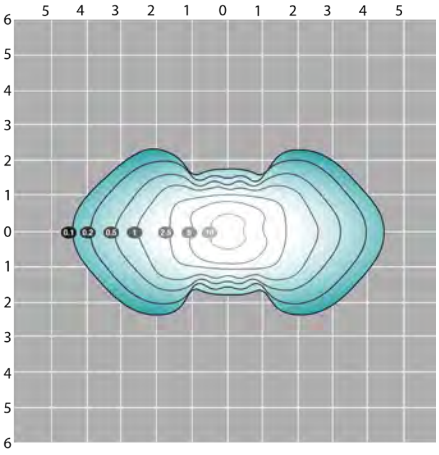
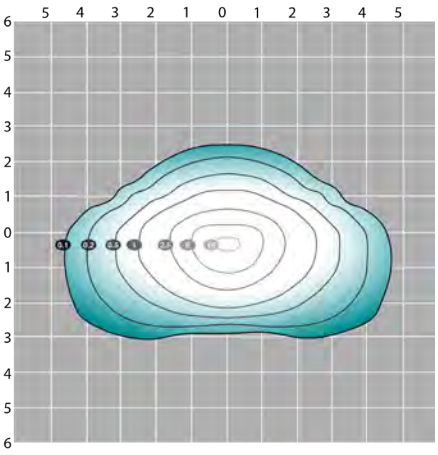
Photometric Information

150W

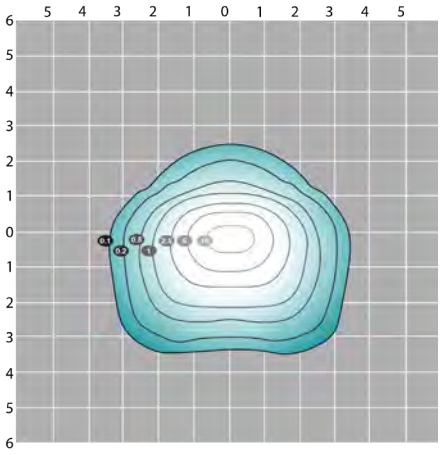
ALX-150UX/CT - T2 - 4000K



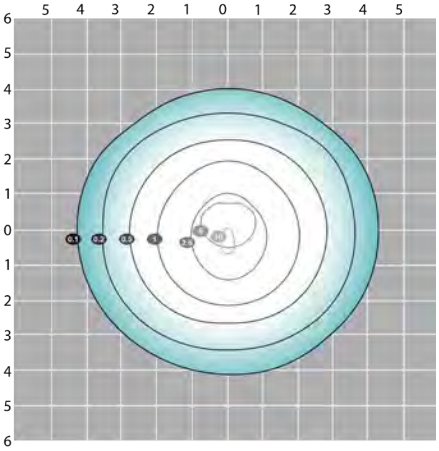
ALX-150UX/CT - T3 - 4000K



ALX-150UX/CT - T4 - 4000K

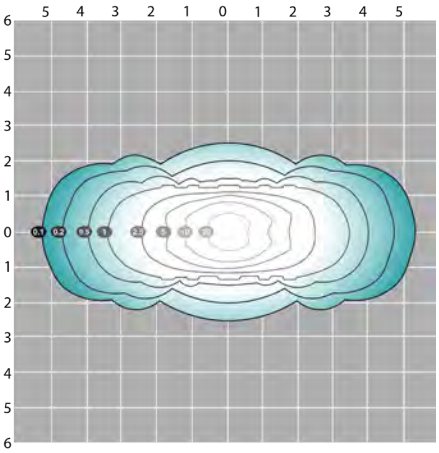


ALX-150UX/CT - T5 - 5000K

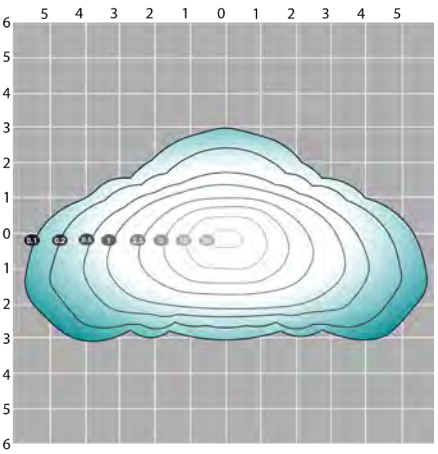


300W

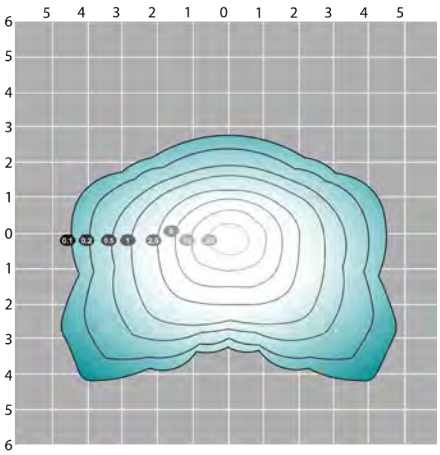
ALX-300UX/CT - T2 - 5000K



ALX-300UX/CT - T3 - 4000K



ALX-300UX/CT - T4 - 4000K



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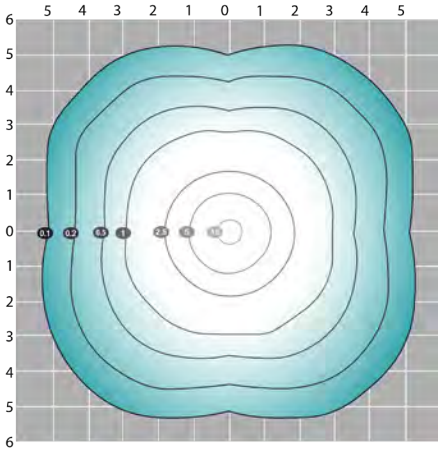
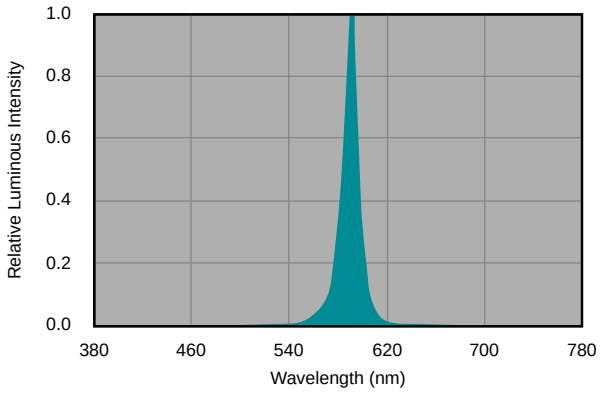
Photometric Information (continued)

ALX-300UX/CT - T5 - 4000K



Amber Spectrum Option

Catalog No.	Rate Wattage (Max.)	Delivered Lumens (lm)	Efficacy (lumens/W)
ALX-150UX/AMBR XE G4 (SR/RC)	150	14,566	97.1
ALX-300UX/AMBR XE G4 (SR/RC)	300	28,375	94.6



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aleoblue™

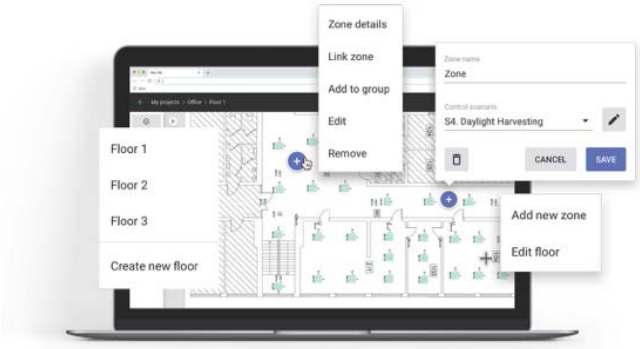
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

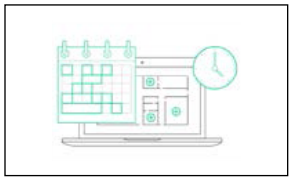
Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

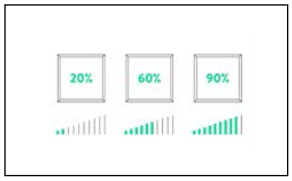


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

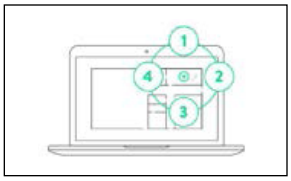
Scheduling



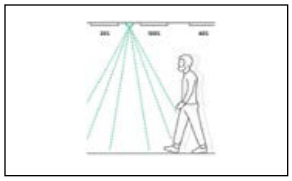
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

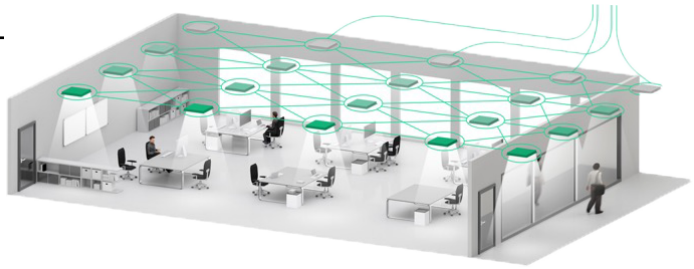
The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication

No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



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Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios

Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth mesh compatible app.

Ordering Information

Wireless Bluetooth, Fixture-Mount Signal Booster Kit
Model: -WLC/BT-SXT

aleoBlue Gateway
Model: SGW-101

*Any exterior lighting design with aleoBlue controls should be reviewed by Aleo’s technical team to ensure proper mesh network quality, unless previously trained by Aleo. Please send designs to tech.support@aleolighting.com

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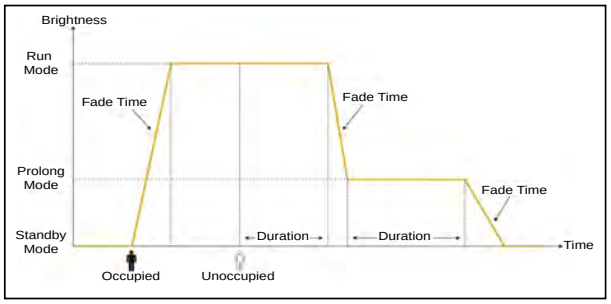
Lighting Control Scenarios

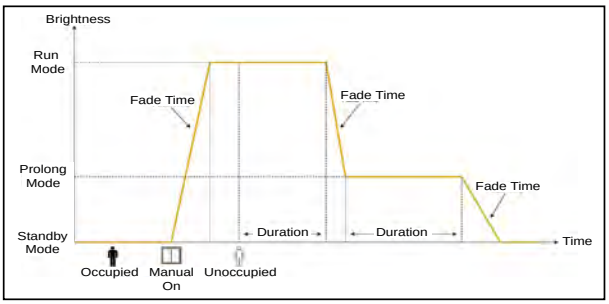
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

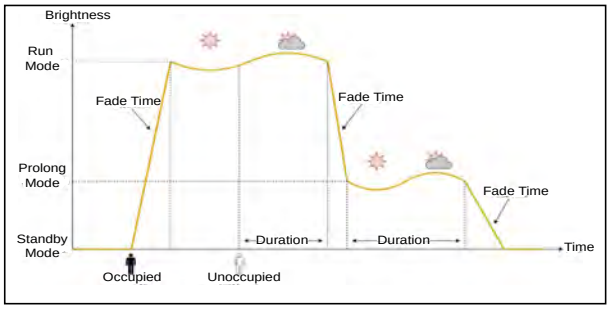
Occupancy Scenario



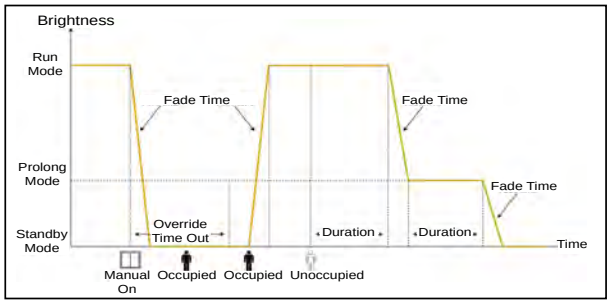
Vacancy Scenario



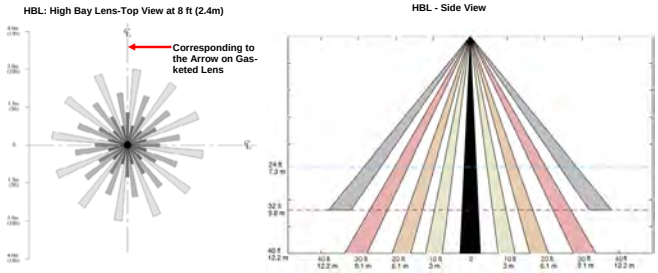
Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern



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Aleo Lighting, Inc.
www.aleolighting.com
10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

Project	
Notes	
Type	Date
Cat. No.	

XLBM™ UX Series — Compact Linear LED High Bay

DESCRIPTION

The Aleo XLBM™ UX Series Compact Linear LED High Bay delivers industry-leading performance with an extremely attractive ROI. Superior performance, ultra high-efficacy and premium quality provides superior solution for high ceiling applications, especially warehouse spaces. Delivering high output, quality light and low energy consumption can improve warehouse safety and productivity, lower maintenance cost, and reducing operating costs.

APPLICATIONS

Provides high output illumination for various commercial industrial applications with high ceilings: warehouse, manufacturing, gymnasiums, retail.

XLBM UX Series

17”
100W / 115W / 135W

23”
155W / 185W / 200W

31”
200W / 230W / 270W

44”
270W / 340W / 400W

Rated Life 75,000 hours
Limited Warranty 7-years
Efficacy Up to 150 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Quick Ship

XLBM-135UX/8CT (SR/RC)
XLBM-200UX/8CT (SR/RC)
XLBM-270UX/8CT (SR/RC)
XLBM-400UX/8CT (SR/RC)

Specification Features

Construction
Rugged and durable construction withstands warehouse environments. Luminaire features white durable finish.

Optical System
Reflector systems features highly reflective coating, delivering adequate light for high-mounting buildings. Diffuser lens reduces glare and improves occupant working conditions while maintaining high efficiency emission.

Certification
UL Listed. All components have UL certification. UL Class 2. Driver: SCP, OTP, OVP protection, FCC Part 15 Class B, UL8750 Class 2.

Warranty
7-year Limited Warranty. See warranty documentation for more information.

Installation / Mounting
Various mounting options available, including suspension, pendant, and surface mount. V-hook hangers and chain accessories included.

Electrical
Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable high-efficiency driver features continuous dimming. Universal voltage (120-277V) for convenient installation. Comes equipped with luminaire quick-disconnect.

Controls / Dimming
Continuous dimming (0-10V). Comes standard with sensor receptacle for plug and play field installation of sensors.

Field Adjustable CCT / Wattage
Increased versatility and reduced inventory burden. Wattage and Color Temp. can be adjusted in the field by selecting (3) different wattages and (2) different CCTs via switch inside the housing.

Ordering Information

Example: XLBM-135UX/8CT (SR/RC)

XLBM	135UX	8	CT	[Blank]	[Blank]	(SR/RC)
Series	**Nominal Max Wattage**	**CRI**	**Color Temp**	**Input Voltage**	**Dimming**	**Sensor Ready**
XLBM Compact Linear LED High Bay	**135UX** 135W **200UX** 200W **270UX** 270W **400UX** 400W	**8** 82+	**CT** Field Adjustable 4000K 5000K	**Blank** 120V-277V	**Blank** 0-10V Continuous Dimming	**(SR/RC)** Sensor Ready with sensor receptacle

Options

Emergency Backup[1]	Controls	Accessories	Designation
EM1400 1400lm **EM2000** 2000lm **EM2400** 2400lm	See pg. 3 for Sensor/Controls information	**ACC** Aircraft cable suspension kit **CRD** Cord (see pg.3 for details) **SP10** 10kA Surge Protector **WG** Wire Guard **PMK** Single-point Pendant-mount Kit	**BAA** Buy American Act Compliant **BABAA** Build America, Buy America Act Compliant

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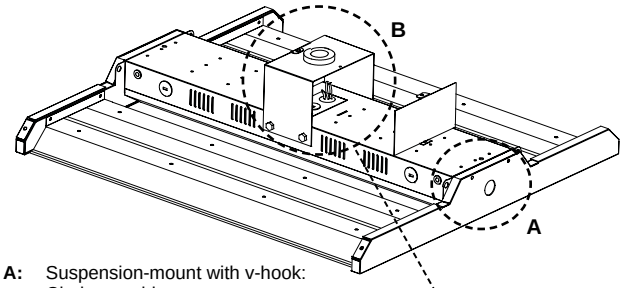
Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 150 LPW (typ.)
CRI	82+, R9 > 0
Available CCT	4000K / 5000K
Rated Life	75,000 hours
L70[2]	> 54,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C
Environment	Suitable for Damp Location

Mounting Information



A: Suspension-mount with v-hook: Chain or cable

B: Pendant Mount

PMK Pendant-mount Kit (sold separately)

Performance Data

Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
17"	XLBM-135UX/8CT (SR/RC)	100	4000K	15,479	100.9	153.4
			5000K	15,641	102.9	152.0
		115	4000K	17,697	117.9	150.1
			5000K	17,886	120.2	148.8
		135	4000K	19,480	131.0	148.7
			5000K	19,665	133.5	147.3
23"	XLBM-200UX/8CT (SR/RC)	155	4000K	22,314	143.4	155.6
			5000K	22,809	146.3	155.9
		185	4000K	26,035	172.3	151.1
			5000K	26,617	175.8	151.4
		200	4000K	28,233	191.8	147.2
			5000K	28,866	195.7	147.5
31"	XLBM-270UX/8CT (SR/RC)	200	4000K	29,275	189.6	154.4
			5000K	30,032	194.0	154.8
		230	4000K	33,167	219.5	151.1
			5000K	34,027	224.6	151.5
		270	4000K	38,402	260.0	147.7
			5000K	39,395	266.0	148.1

NOTES:

1 IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

2 L70 hours calculated based on LED package manufacturer LM80 report and ISTMT report of LED in luminaire. Stated values are for select catalog numbers.

Specifications and Dimensions subject to change without notice.

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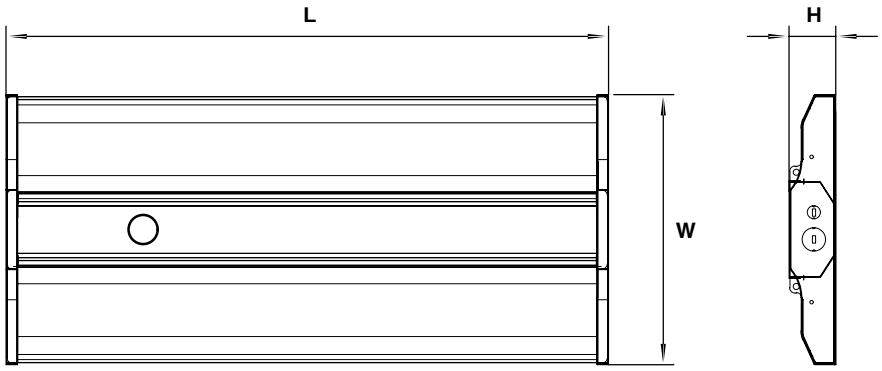
Performance Data (Cont'd)

Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
44"	XLBM-400UX/8CT (SR/RC)	270	4000K	39,697	254.3	156.1
			5000K	40,425	259.8	155.6
		340	4000K	48,797	323.8	150.7
			5000K	49,672	330.7	150.2
		400	4000K	56,710	382.4	148.3
			5000K	57,755	390.5	147.9

Product **Dimensions**



Model No.	L	W	H
XLBM-135UX/8CT (SR/RC)	16.5" (420mm)	10.2" (260mm)	1.8" (45mm)
XLBM-200UX/8CT (SR/RC)	22.8" (580mm)	10.2" (260mm)	1.8" (45mm)
XLBM-270UX/8CT (SR/RC)	31.1" (790mm)	10.2" (260mm)	1.8" (45mm)
XLBM-400UX/8CT (SR/RC)	44.1" (1120mm)	10.2" (260mm)	1.8" (45mm)

Control and Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control
SHF-OSDL/IR-PP1-LV-10V-A01	Basic Multi-level High Frequency Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
SPIR-OSDL/IR-PP1-DC-130	Basic Multi-level Passive Infrared Occ Sensor w/ Photocell Function, Plug and Play 3.5mm port, IR remote setting	Order Separately	Field Installed (Plug/Play)	SRC-A01
SPIR-OSDL/BT-PP1-DC-300	AleoBlue, Wireless Bluetooth PIR Occ Sensor w/ Daylight Harvesting, 12V DC input, Plug and Play 3.5mm port, 40ft high bay lens	Order Separately	Field Installed (Plug/Play)	AleoBlue App
SPIR-OSDL/BTEZ-PP1-DC-100	SimplBlue PIR Occ Sensor w/ Daylight Harvesting, Plug and Play 3.5mm port, comes w/ HBL1 lens	Order Separately	Field Installed (Plug/Play)	SimplBlue App

*Any exterior lighting design with AleoBlue controls should be reviewed by Aleo's technical team to ensure proper mesh network quality, unless previously trained by Aleo. Please send designs to tech.support@aleolighting.com

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Surge Protector Options

Catalog No.	Description	Ordering	Shipping
SP10	10kA Surge Protector	Order and Ship Separately	Field Install

Cord Set Options

Catalog No.	Description	Ordering	Shipping
CRD-A	SO CORD 6’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-B	SO CORD 10’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-C	SO CORD 12’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-D	SO CORD 15’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-E	SO CORD 20’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-F	SO CORD 25’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field
CRD-G	SO CORD 30’ 18/3	Order with Model No.	Partially Factory Installed - Snap-in in the Field

Plug Options

Catalog No.	Description	Ordering	Shipping
PLG-1	Straight plug, 125V, NEMA 5-15P	Order with Model No.	Factory Installed
PLG-2	Twist-lock, 125V, NEMA L5-15P	Order with Model No.	Factory Installed
PLG-4	Twist-lock, 277V, NEMA L7-15P	Order with Model No.	Factory Installed
PLG-5	Twist-lock, 480V, NEMA L8-20P	Order with Model No.	Factory Installed
PLG-6	Twist-lock, 250V, NEMA L6-15P	Order with Model No.	Factory Installed

Mounting Options

Catalog No.	Description	Ordering	Shipping
PMK	Pendant-mount kit (1/2” NPT hole size)	Order and Ship Separately	Field Install
SMB	Surface-mount bracket	Order and Ship Separately	Field Install
ACC	Aircraft Cable - 10’ 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install
HB-MH-1/2 NPT	Aircraft Cable - 20’ 1/16 cable toggle kit with grip lock	Order and Ship Separately	Field Install

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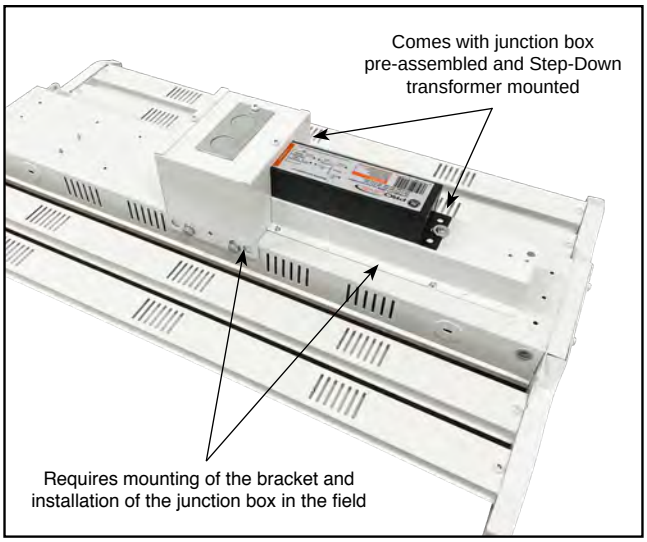
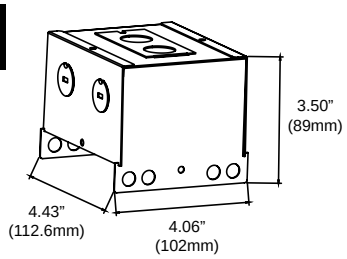
Transformer Kit Options

Catalog No.	Description	Ordering	Shipping
XLBM-EXT-480V-250W*	Field-install external 480V step-down transformer kit, for XLBM/ILB, 250W(VA) max, magnetic core and coil, for use on single phase	Order and Ship Separately	Field Install

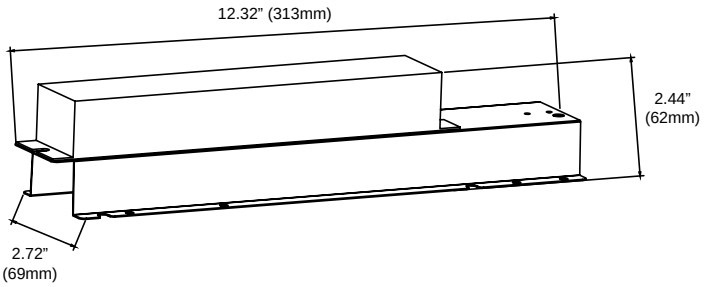
*This kit is only compatible with 135W and 200W. For 270W and 400W, factory install only.



Junction Box



Step-Down Transformer



BAA and BABAA Compliant

BAA COMPLIANT

BAA - Buy America Act Compliant

Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

BABAA - Build America, Buy America Compliant

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

*Note: BAA and BABAA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
XLBM-400UX/8CT (SR/RC)	S-FRBC55	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-200UX/8CT (SR/RC)	S-FTL6VN	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-270UX/8CT (SR/RC)	S-M28L2Q	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings
XLBM-135UX/8CT (SR/RC)	S-VYQWMR	5.1	Premium	High-Bay Luminaires for Commercial and Industrial Buildings

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aleoblue™

Learn More

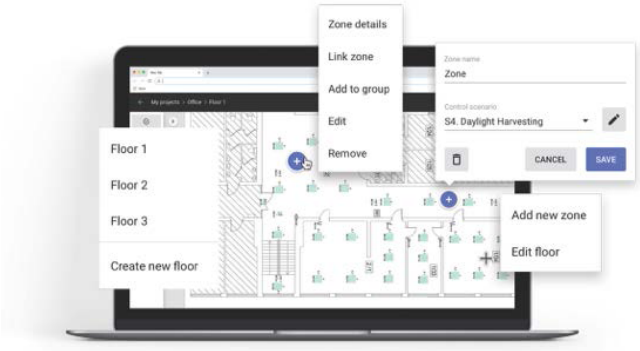
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

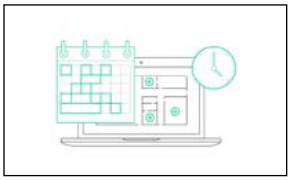
Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

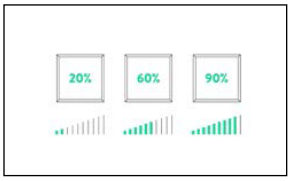


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

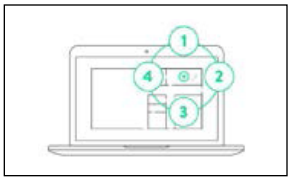
Scheduling



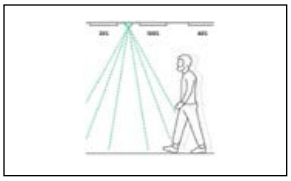
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

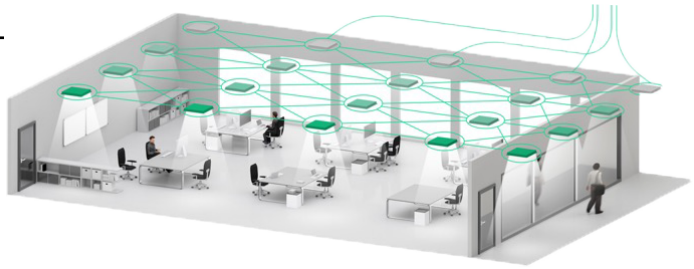
The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication

No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



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aleoblue™

Learn More

Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios

Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth mesh compatible app.

Ordering Information

Wireless Bluetooth Occupancy Sensor
Model: SPIR-OSDL/BT-PP1-DC-300

EnOcean BLE Single-Rocker Switch
Model: ESRPB

EnOcean BLE Double-Rocker Switch
Model: EDRPB

aleoBlue Gateway
Model: SGW-101

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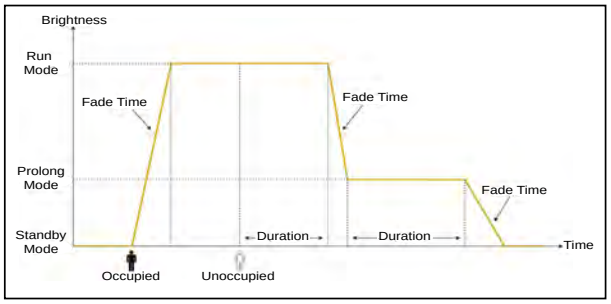
Lighting Control Scenarios

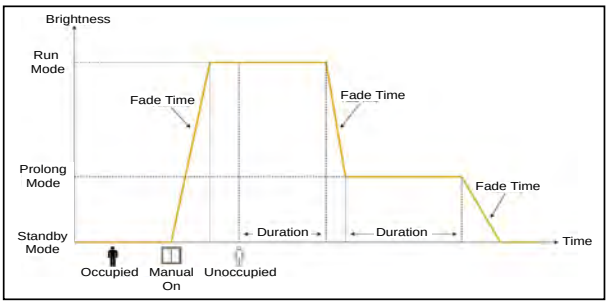
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

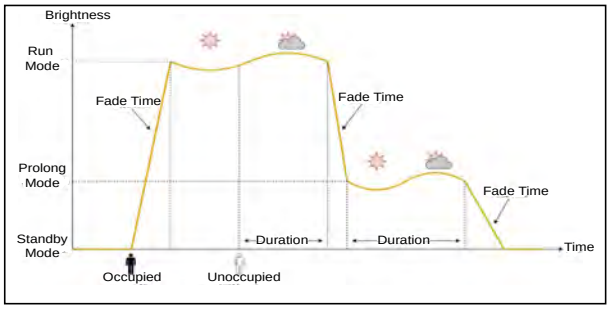
Occupancy Scenario



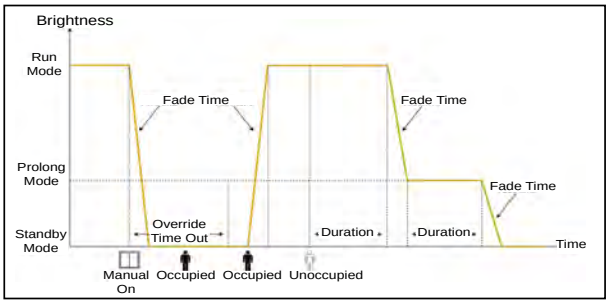
Vacancy Scenario



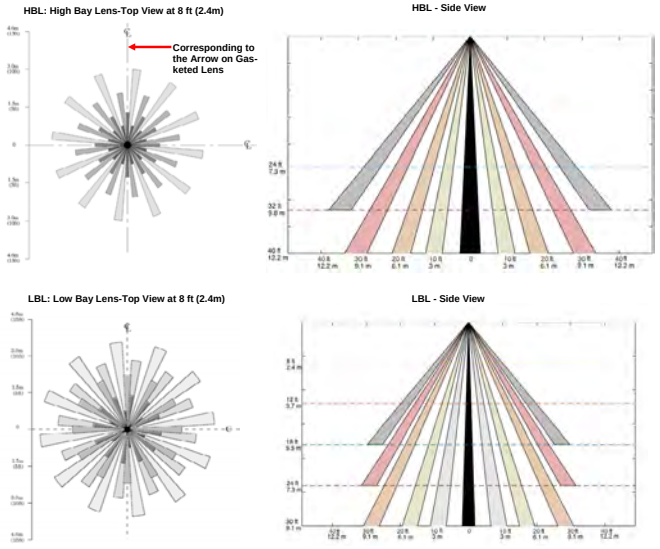
Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



Occupancy Detection Pattern



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10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

Project		Catalog #		Type	
Prepared by		Notes		Date	

Ephesus

LUMA**SPORT 8** - Integral

CCT Tunable or Fixed-Color White LED Sports & Entertainment Luminaire

Typical Applications

Ball Fields • Pro Arenas • University & Collegiate Arenas
University & Collegiate Stadiums • Multi-Event & Convention Centers
Gymnasiums & Field Houses

Product Certification

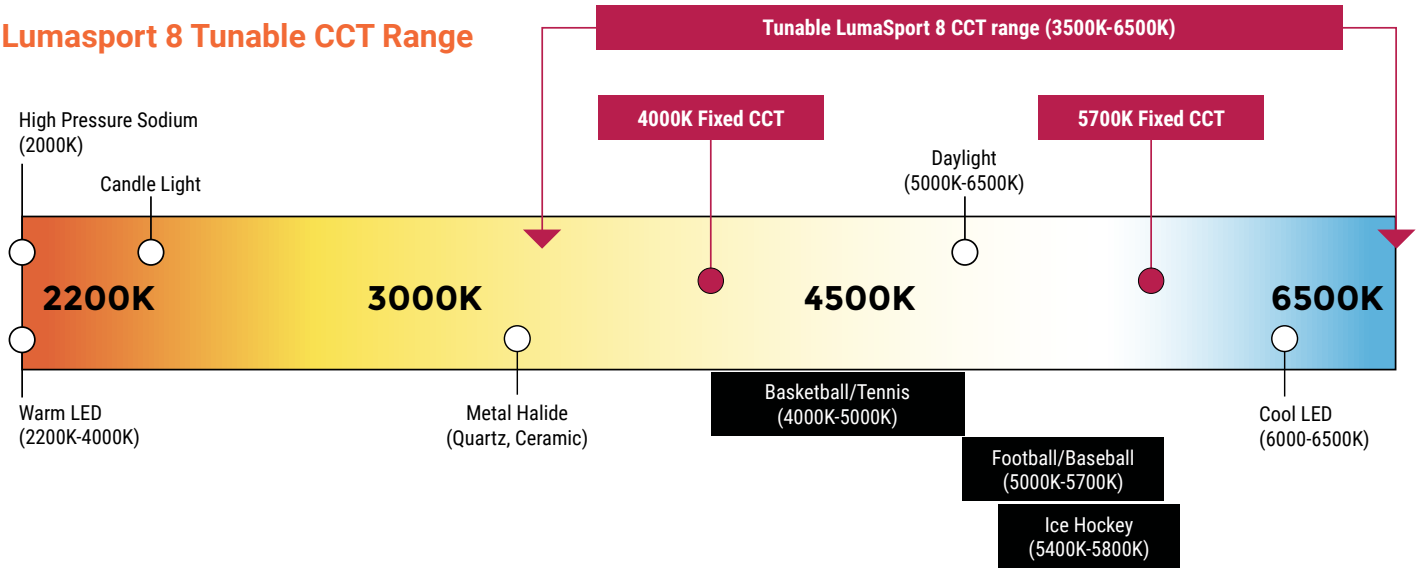
Interactive Menu

- Ordering Information page 3
- Dimensional and Mounting Details page 4
- Performance Data page 8
- Electrical Performance Data page 8
- Ordering Information for Accessories page 9
- Accessory Dimensions and Part Details page 10
- Example System Topology page 13

Top Product Features

- Streamlined design ideal for one-to-one integral ballast retrofit systems speeding up and simplifying installation.
- Pre-aiming capability reduces installation time and ensures aiming precision.
- Industry leading light source reliability with Chip-on-Board LEDs with an efficacy up to 174 lumens per Watt.
- Award winning glare and cutoff control via patented Hybrid Reflector and TIR Optical System.
- Available in fixed CCT options of 4000K to 5700K and a tunable CCT range option of 3500K to 6500K to meet varying lighting demands.
- Top Mounted Yoke, Bottom Mounted Yoke, Pendant Mount and Slip Fitter Mounting options for flexibility in applications.
- Power redundancy insures system reliability.
- Wired DMX and Wireless AirMesh control protocols allow for system alerts, scheduling, and on-demand control of static and dynamic lighting scenes.
- Options to meet Trade Agreements Act requirements.

Lumasport 8 Tunable CCT Range



Mounting Configuration Examples

2QTY LUMASPORT 8 - INTEGRAL LUMINAIRE
SHOWN USING THE TOP MOUNT YOKE (TY)

2QTY LUMASPORT 8 - INTEGRAL LUMINAIRE
SHOWN USING THE BOTTOM MOUNT YOKE (BY)
ON A EPHESUS CATWALK BRACKET (EPH-LS-CAT-N-2-U-B)

1QTY LUMASPORT 8 - INTEGRAL LUMINAIRE
SHOWN USING THE PENDANT MOUNT (RP)

1QTY LUMASPORT 8 - INTEGRAL LUMINAIRE
SHOWN USING SLIP FITTER MOUNTING BRACKET AND SLIP FITTER ACCESSORY (SLPFTR)
SLIP FITTER (SLPFTR) MOUNTING ACCESSORY SOLD SEPARATELY

Order Information

NOTE: A complete fixture order requires a selection entry for **Brand, Family, Model, Power Configuration, Color, CCT, CRI, Optic, Light Head Cable (DC), Voltage, Control, Mount Configuration, Power Cable (AC), Options, Packaging, & Special Option**.

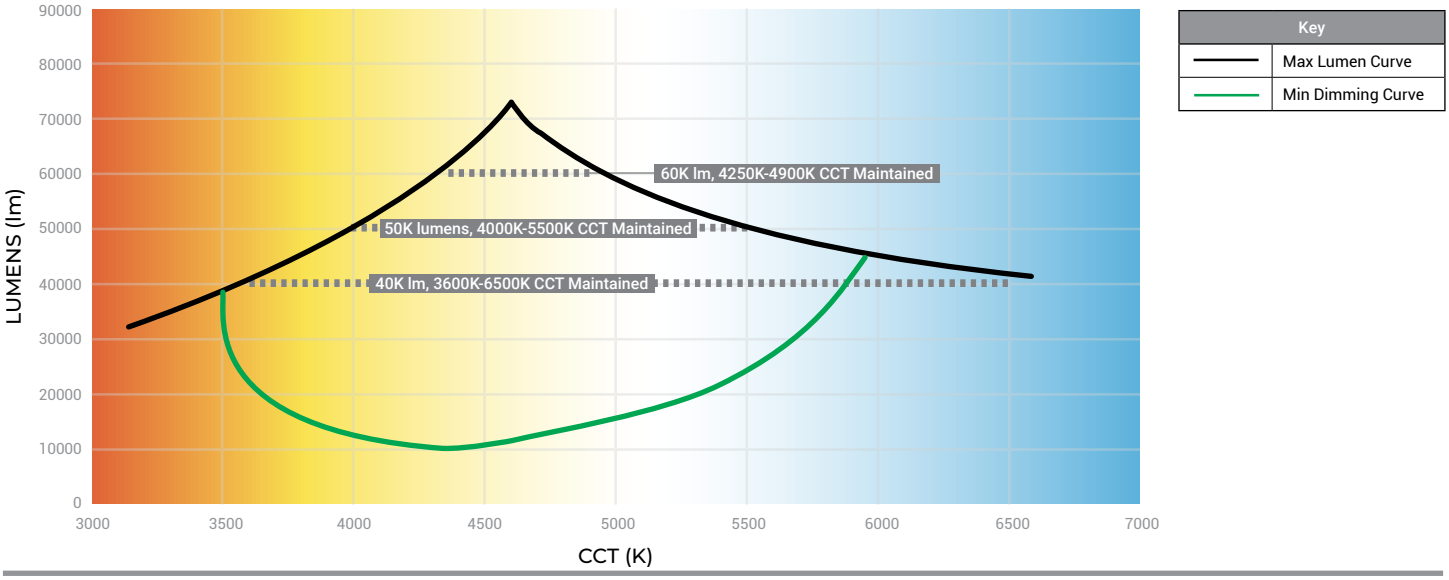
SAMPLE ORDER NUMBER: **EPH-LS-08-0680N-BLK-57-80-2S-C00-LV-AM-BY-A04-HEG-BP-ST**

Brand	Family	Model	Power Configuration	Color	CCT	CRI	Optic	Light Head Interface (DC)
EPH = Ephesus, Standard **TAA**=Trade Agreements Act[1]	**LS** = Lumasport	**08** = 8 Optics	**0320N** = 320W Integral Power **0530N** = 530W Integral Power **0680N** = 680W Integral Power	**BLK** = Black **WHT** = White	**40** = 4000K **57** = 5700K **PRO**[3] = CCT Color Tuning	**70** = 70 CRI **80** = 80 CRI **85** = 85 CRI	**1S**[5] = NEMA 3 | 17.5 | 33.3 **2S** = NEMA 3 | 21.9 | 40.2 **3S** = NEMA 3 | 25.4 | 45.7 **4S** = NEMA 4 | 36.0 | 64.4 **5S** = NEMA 5 | 46.6 | 82.6 **7F** = NEMA 7 | 72.5 | 131.0	**C00** = Direct Connection
Notes: (1)Only product configurations with this designated prefix are built to be compliant with the Trade Agreements Act of 1979 (TAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.				Notes: (2) Not coastal rated. Contact Ephesus for coastal fixture options.	Notes: (3) PRO only available with 530N	Notes: (4) 85 only available with PRO CCT	Notes: (5) Optic = NEMA TYPE; BEAM ANGLE; FIELD ANGLE. (6) Aiming angles for 680N power configuration and 1S optics between 30-90 Degrees.	Notes: (7) The driver assembly is integrated directly into the luminaire

Voltage	Control	Mount Configuration	Power Cable (AC)	Options	Packaging	Special Option
LV = Low Voltage **HV** = High Voltage	**NC** = No Control **AM** = Wireless AirMesh **LB** = Wired DMX	**TY** = Top Mounted Yoke **BY** = Bottom Mount Yoke, Catwalk Standard **RP**[10] = Pendant Mount **SM**[11] = Slip Fitter mount	**A00 = No Cable** **A04** = 4ft Cable, Standard **A10** = 10ft Cable **A20** = 20ft Cable **BH3** = 3 Pin Connector on AC, 3ft Standard Cable	**HEG** = No Visor | High Efficiency Glass Lens **VHE**[13] = Visor | High Efficiency Glass Lens **CV1**[14] = 1 Louver Cutoff Visor **CV2**[14] = 2 Louver Cutoff Visor **CV5**[14] = 5 Louver Cutoff Visor	**BP** = Bulk Pack	**ST** = Standard
	Notes: (8) PRO CCT not offered with NC = No Control	Notes: (9)Contact Ephesus for Slipfitter Mounting options. (10) **RP** = Pendant Mount not available in **0680N** = 680N Integral Power configuration. (11) **SM** = Slip Fitter mount tilt range of 20-90 Slip Fitter mounting bracket is shipped separately from the light head. Slip Fitter (SLPFTR) Mounting Accessory Sold Separately.	Notes: (12) AC Cable connecting the luminaire to the electrical power source.	Notes: (13) VHE visor color only available in silver. (14) CV1, CV2, CV5 visor color only available in black. (15) CV1, CV2, CV5 will not be available on the PRO CCT		

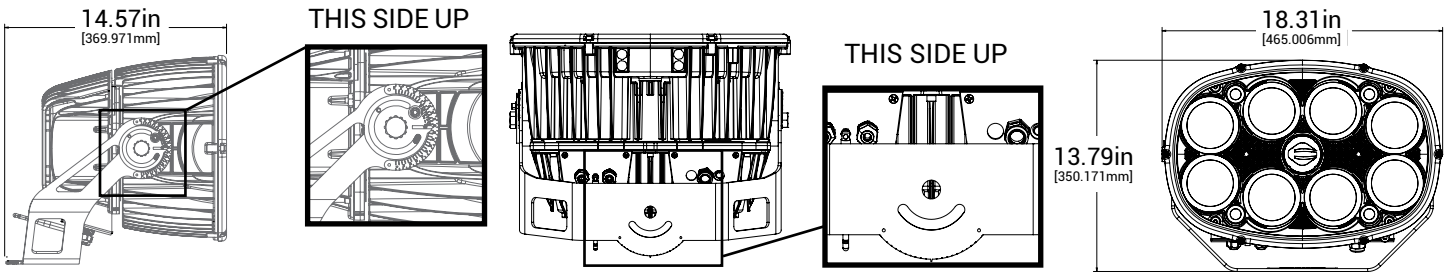
DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details

CCT PRO Tuning Operating Range



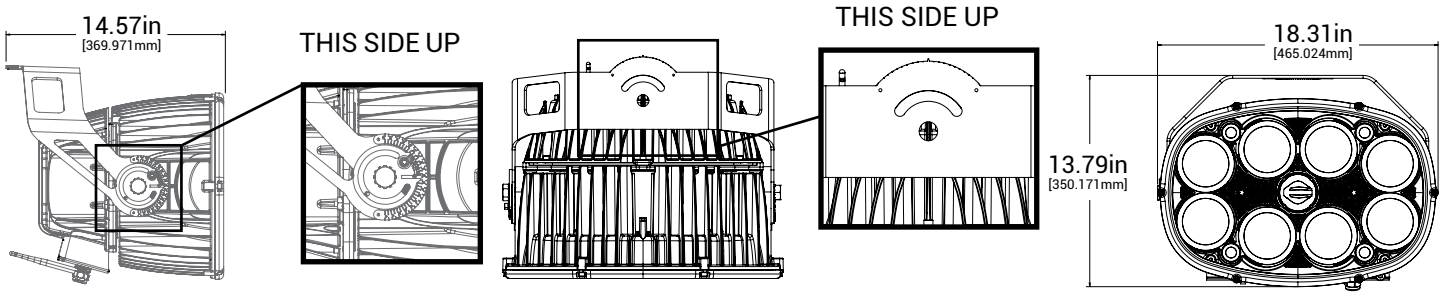
Dimensional and Mounting Details

MOUNTING CONFIGURATION: TOP MOUNT YOKE



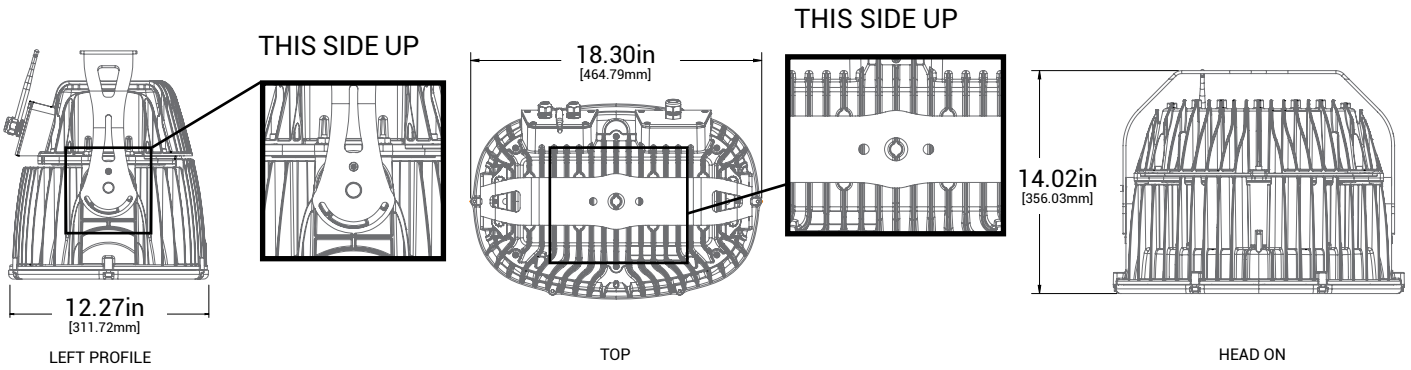
LEFT PROFILE | BOTTOM: LATERAL ORIENTATION MOUNT | HEAD ON

MOUNTING CONFIGURATION: BOTTOM MOUNT YOKE



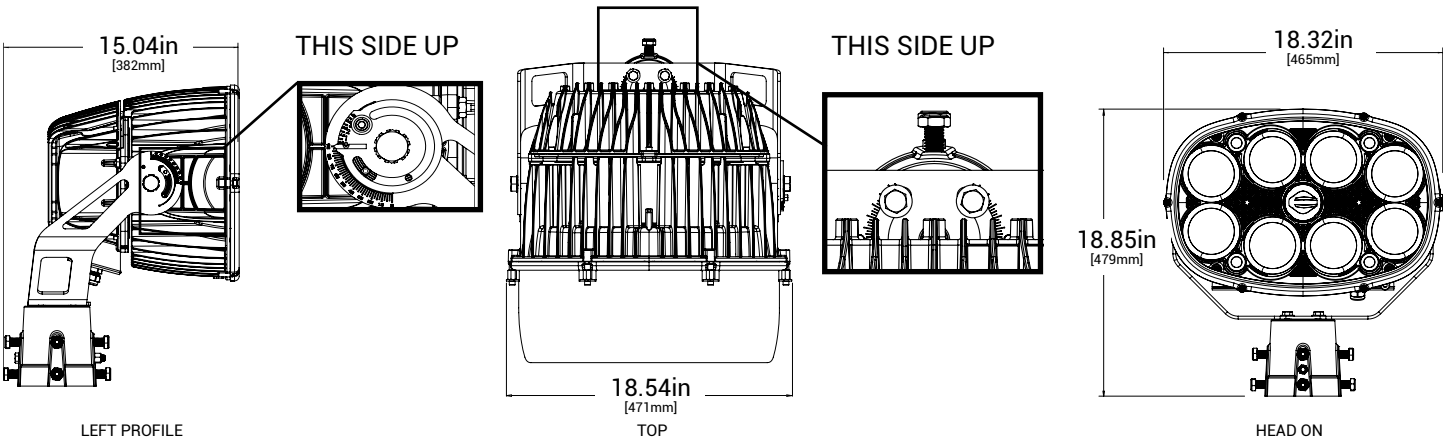
LEFT PROFILE | TOP | HEAD ON

MOUNTING CONFIGURATION: PENDANT MOUNT



LEFT PROFILE | TOP | HEAD ON

MOUNTING CONFIGURATION: SLIP FITTER MOUNT

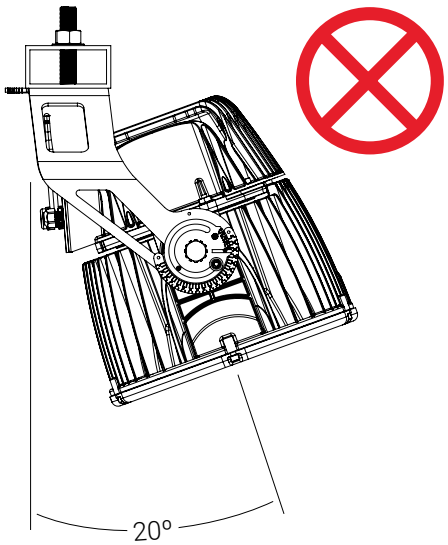


LEFT PROFILE | TOP | HEAD ON

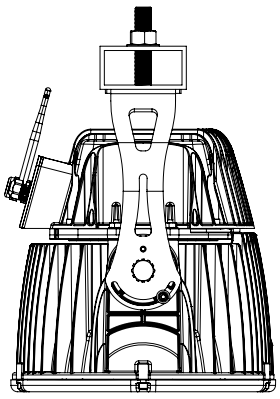
	320W		530W		680W	
Usage	Indoor	0-90 Degrees	Indoor	0-90 Degrees	N/A	N/A
	Outdoor	20-90 Degrees	Outdoor	20-90 Degrees	Outdoor	20-90 Degrees; 30-90 Degrees for 1S optic
Mounting options (1.5G Rated)	Top mount yoke, Bottom Mount Yoke, Pendant Mount, Slip Fitter Mount		Top mount yoke, Bottom Mount Yoke, Pendant Mount, Slip Fitter Mount		Top mount yoke, Bottom Mount Yoke, Slip Fitter Mount	

INCORRECT ORIENTATIONS

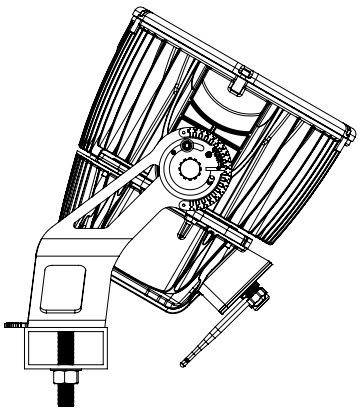
680W configurations can not be aimed downward below 20º
680W 1S configurations can not be aimed downward below 30º
All configurations can not be aimed downward below 20º outdoors or in wet locations



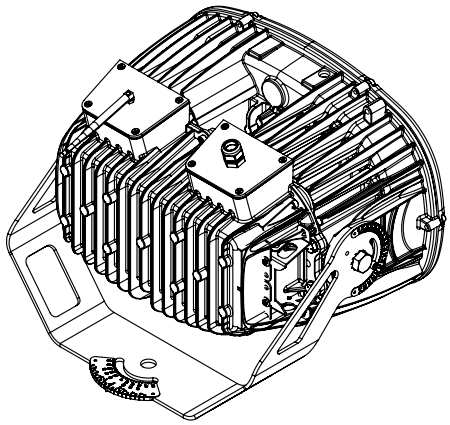
680W configurations can not be used with the Pendant Mount



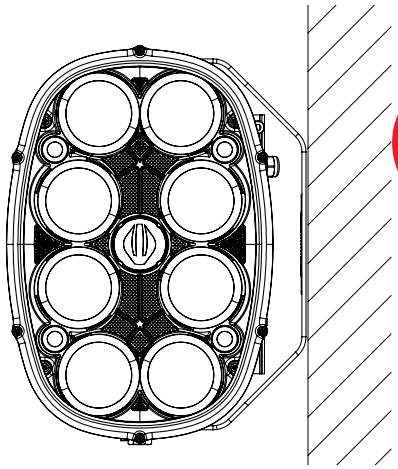
Uplight not allowed. Please contact Ephesus Sports Lighting for uplighting solutions.



All configurations can not be inverted with junction box on top

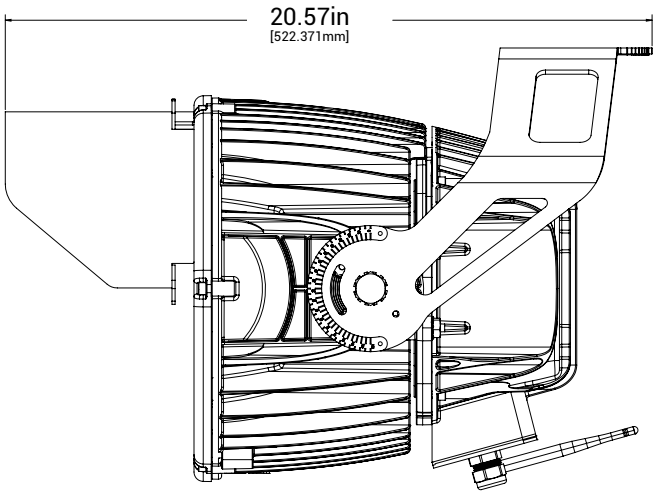


All configurations can not be side mounted

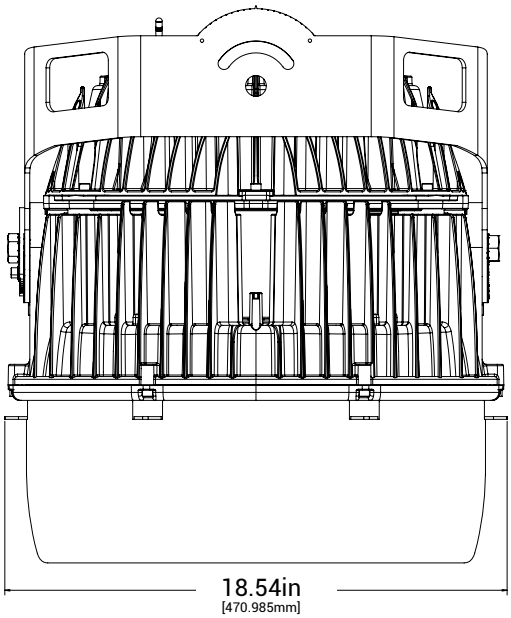


VHE Visor Option Dimensional Details

MOUNTING CONFIGURATION: BOTTOM MOUNT YOKE



LEFT PROFILE: VISOR

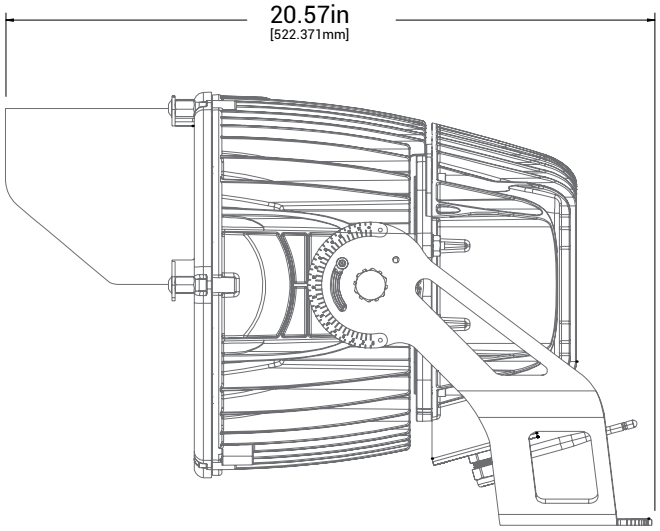


TOP. VISOR

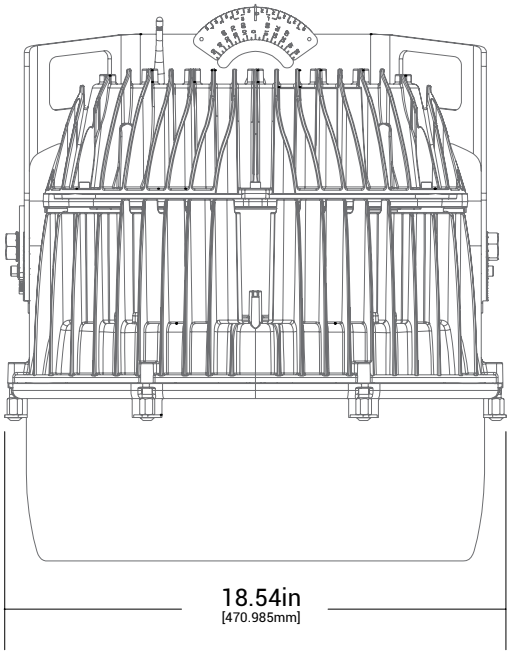
NOTES:

The addition of a visor adds 4lbs of material to the luminaire weight.

MOUNTING CONFIGURATION: TOP MOUNT YOKE



LEFT PROFILE: VISOR

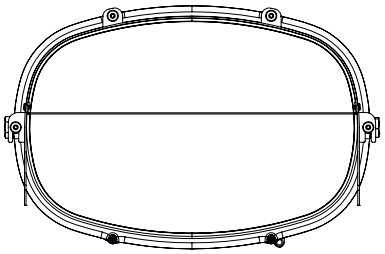


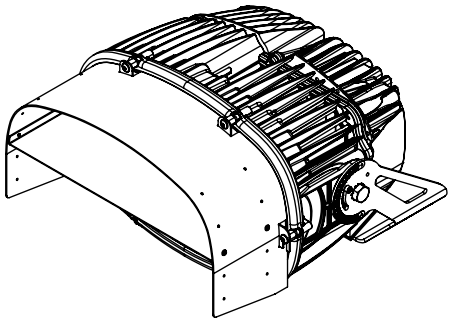
TOP. VISOR

CV1, CV2, CV5 Cutoff Visor Options*

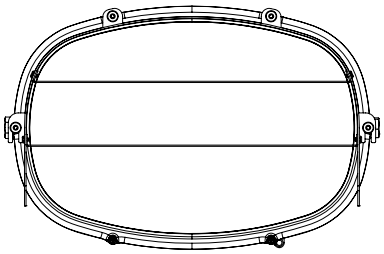
*CV1, CV2, CV5 will not be available on the PRO CCT

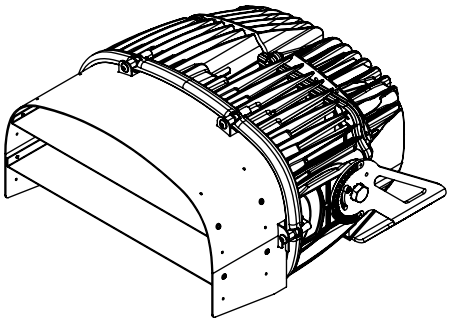
CV1



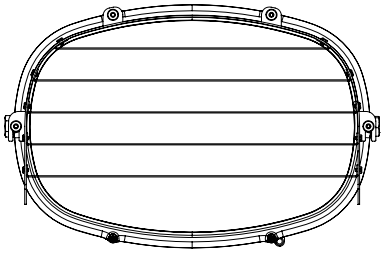


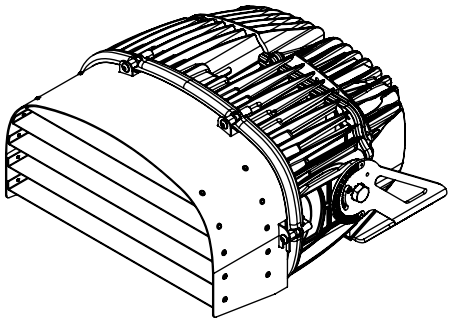
CV2



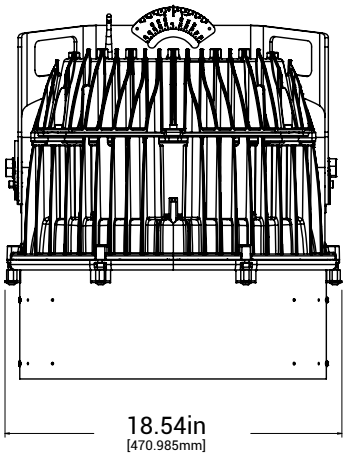


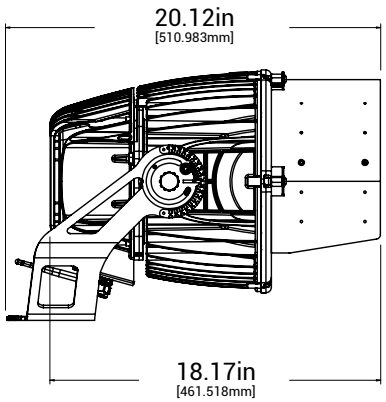
CV5

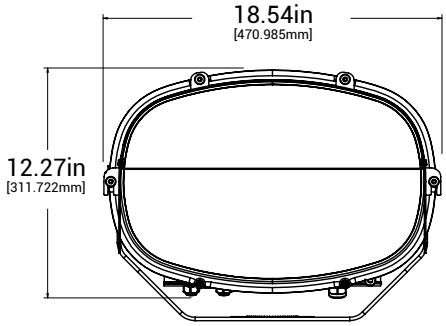




CV1, CV2, CV5 Cutoff Visor Option Dimensional Details







Performance Data[1]

	LUMASPORT 8 (320W)	LUMASPORT 8 (530W)	LUMASPORT 8 (680W)
Lumen Output Range	51,000 - 60,000 lm	78,000 - 90,000 lm	93,000 - 111,000 lm
Lumen Output (PRO Version at 85CRI)[10]	N/A	56,596	N/A
Nominal Power[2]	355W	578W	724W
Input Voltage (Low Voltage)	120-277VAC	120-277VAC	120-277VAC
Input Voltage (High Voltage)	347-480VAC	347-480VAC	347-480VAC
Efficacy Range	149 - 174 lm/W	140 - 162 lm/W	128 - 159 lm/W
CRI[3]	70, 80	70, 80, 85 [11]	70, 80
TLCI[4]	up to 75	up to 75	up to 75
CCT Range	4000K, 5700K	4000K, 5700K	4000K, 5700K
CCT Tunable Range (PRO Version at 85CRI)	N/A	3500K - 6500K	N/A
Distribution (NEMA)	3-7	3-7	3-7
Dimming Range	DIM TO OFF, 10%-100%	DIM TO OFF, 10%-100%	DIM TO OFF, 10%-100%
Operating Temperature Range	-40°C to +40°C	-40°C to +40°C	-40°C to +40°C
Usage	INDOOR, OUTDOOR	INDOOR, OUTDOOR	OUTDOOR
Mounting Options (1.5G RATED)	TOP MOUNT YOKE, BOTTOM MOUNT YOKE, PENDANT MOUNT, SLIP FITTER MOUNT	TOP MOUNT YOKE, BOTTOM MOUNT YOKE, PENDANT MOUNT, SLIP FITTER MOUNT	TOP MOUNT YOKE, BOTTOM MOUNT YOKE, SLIP FITTER MOUNT
Electrical Certifications	FCC, UL8750, UL1598, DLC Standard (NANQSV)	FCC, UL8750, UL1598, DLC Standard (NANQSV)	FCC, UL8750, UL1598, DLC Standard (NANQSV)
Environmental Certifications	IP66	IP66	IP66
Vibration	ANSI C136.31-2010 1.5G	ANSI C136.31-2010 1.5G	ANSI C136.31-2010 1.5G
Surge	10kV	10kV	10kV
Effective Projected Area (EPA)	1.93 (sq. ft.)	1.93 (sq. ft.)	1.93 (sq. ft.)
Effective Projected Area (EPA) with Visor (VHE , CV1, CV2, CV5)[8]	2.2 - 2.4 (sq. ft.)	2.2 - 2.4 (sq. ft.)	2.2 - 2.4 (sq. ft.)
Approximate Weight[9]	57 LBS	57 LBS	57 LBS
Approximate Weight with Visor (VHE , CV1, CV2, CV5)[9]	61 LBS	61 LBS	61 LBS

NOTES:

(1) Specifications are subject to change without notice.
(2) Values are +/- 4% when fixture is operated at 25°C ambient
(3) Values are +/- 2%
(4) Values are +/- 3 points.
(5) When driver box is mounted in upright position.
(6) Luminaire meets NEMA4X Certification
(7) LumaSport 8 with Visors (VHE, CV1, CV2, CV5) qualifies for ANSI C136, 31-2010 1.5G
(8) EPA may vary depending on the aiming angle of the fixture.
(9) Weight may vary depending on mounting bracket, VHE Visor option, and luminare configuration.
(10) Based of 3S Optic, 85 CRI, 5000 CCT
(11) 85 CRI is only available in PRO model

Electrical Performance Data

Product	Voltage level	Input voltage range (Vac)	Nominal input power(W)	Input Current(A)	Power factor (@ max load)	THDi(@ max load)%	Inrush period (ms)	Peak Inrush (A)
EPH-LS-08-0320N-XXX-LV	(-LV-) Low voltage	120	357	2.97	0.99	4.79	0.28	133
		277	349	1.28	0.98	7.66	0.27	311
EPH-LS-08-0320N-XXX-HV	(-HV-) High voltage	347	359	1.04	0.99	7.02	0.41	92
		480	358	0.76	0.98	9.20	0.41	129
EPH-LS-08-0530N-XXX-LV	(-LV-) Low voltage	120	591	6.81	0.99	5.61	0.40	188
		277	573	2.84	0.97	11.60	0.38	440
EPH-LS-08-0530N-XXX-HV	(-HV-) High voltage	347	576	2.40	0.99	8.16	0.58	130
		480	573	1.69	0.98	10.17	0.58	182
EPH-LS-08-0530N-XXX-PRO-85-LV	(-LV-) Low voltage	120	598	4.99	0.99	4.70	0.40	188
		277	586	2.12	0.97	7.70	0.38	440
EPH-LS-08-0530N-XXX-PRO-85-HV	(-HV-) High voltage	347	594	1.71	0.99	8.10	0.58	130
		480	588	1.23	0.97	10.50	0.58	182
EPH-LS-08-0680N-XXX-LV	(-LV-) Low voltage	120	744	8.50	0.99	5.69	0.40	188
		277	716	3.50	0.98	11.32	0.38	440
EPH-LS-08-0680N-XXX-HV	(-HV-) High voltage	347	722	2.99	0.99	6.86	0.58	130
		480	716	2.11	0.98	9.16	0.58	182

NOTE: All values measured at 25°C ambient conditions

Ordering Information for Accessories

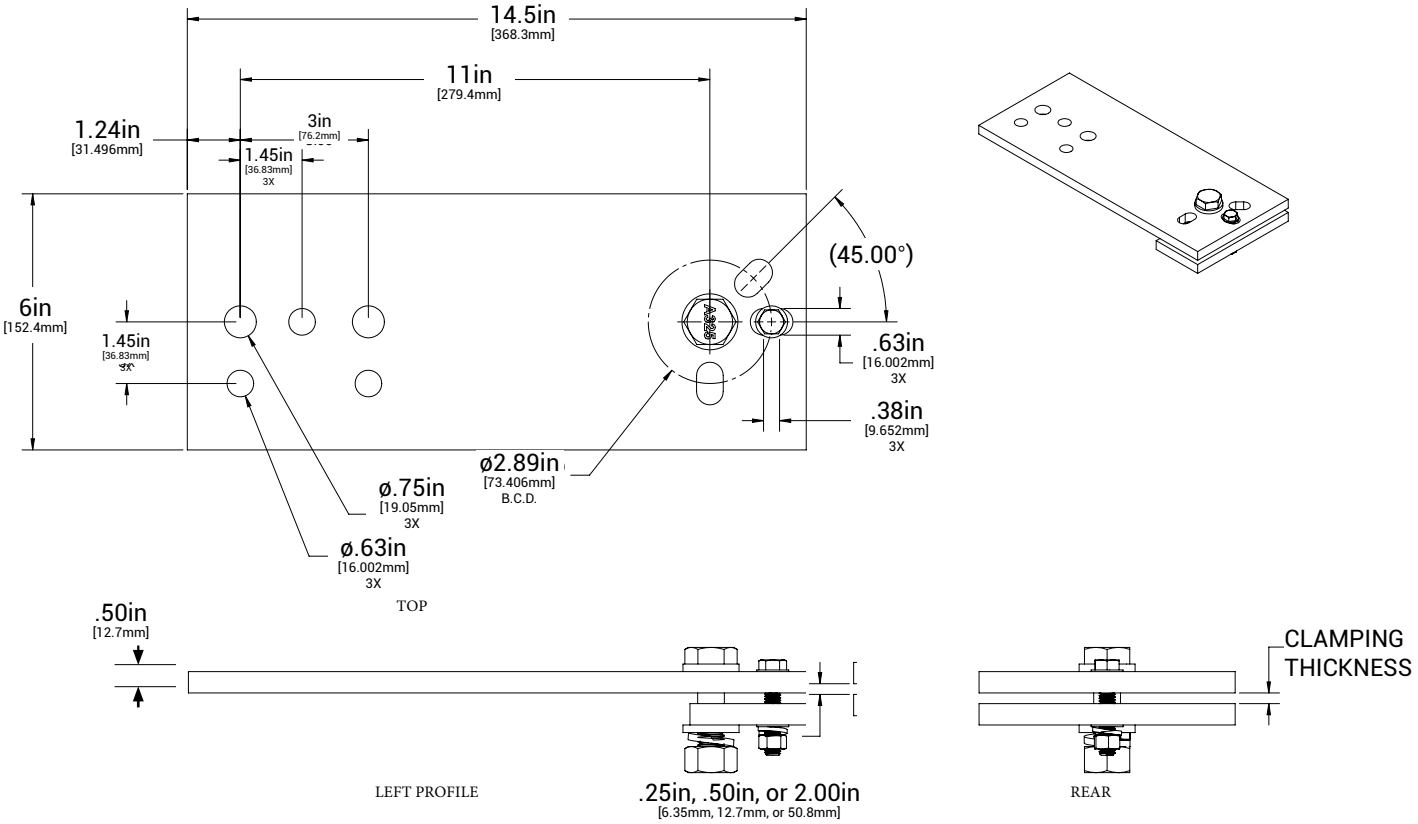
NOTE: A complete accessory order requires a selection entry for **Brand, Accessory, Option**.

SAMPLE ORDER NUMBER: **EPH-HRDM34-025**

Brand	Accessory	Option

Brand	Accessory	Option	Intended Use
EPH = Ephesus	**EXTPLT** = Extension Plate[1]	**025** = .25in **050** = .5in **200** = 2.0in	Extension Plate Kit to mount to structures .25In, .5In, or 2.00In thick. Designed to be used with the LUMA**SPORT** 8 - Local, LUMA**SPORT** 8 - Integral, LUMADAPT 8, LUMA**SPORT** 8 PRISM - Local luminaires only.
	DVGBRD = Diving Board[2]		Diving Board to mount to 2in x 4in steel cross arms. Designed to be used with the LUMA**SPORT** 16 - Local, LUMA**SPORT** 8 - Local, LUMA**SPORT** 8 - Integral, LUMADAPT 8, LUMA**SPORT** 8 PRISM - Local luminaires only.
	HRDM58 = Mounting Hardware 5/8in diameter	**050** = .375in - .50in Range of Clamping Thickness[3] **200** = 2in Clamping Thickness[3]	**HRDM58-050:** .375-.500in clamping thickness, Use for Extension Plate (EXTPLT) or other flat surfaces drilled for 5/8in hardware **HRDM58-200:** 2.00in clamping thickness, use for 2in x 4in Cross arms that are drilled for 5/8in hardware
	HRDM34 = Mounting Hardware 3/4in diameter	**025** = .25in[4] **075** = .75in[4] **200** = 2in[4]	**HRDM34-025:** .25-.50in clamping thickness, use for diving board (DVGBRD) or other flat surfaces drilled for 3/4in hardware **HRDM34-075:** .50-.75in clamping thickness, flat surfaces drilled for 3/4in hardware **HRDM34-200:** 2.00in clamping thickness, use for 2in x 4in Cross arms that are drilled for 3/4in hardware
	Notes: (1) Additional mounting fastener hardware kit needed to attach a fixture to the **EXTPLT** = Extension Plate (2) Additional mounting fastener hardware kit needed to attach a fixture to the **DVGBRD** = Diving Board	Notes: (3) Option only available for use with **HRDM58** (4) Option only available for use with **HRDM34**	

Extension Plate (EXTPLT) Dimension and Part Details:



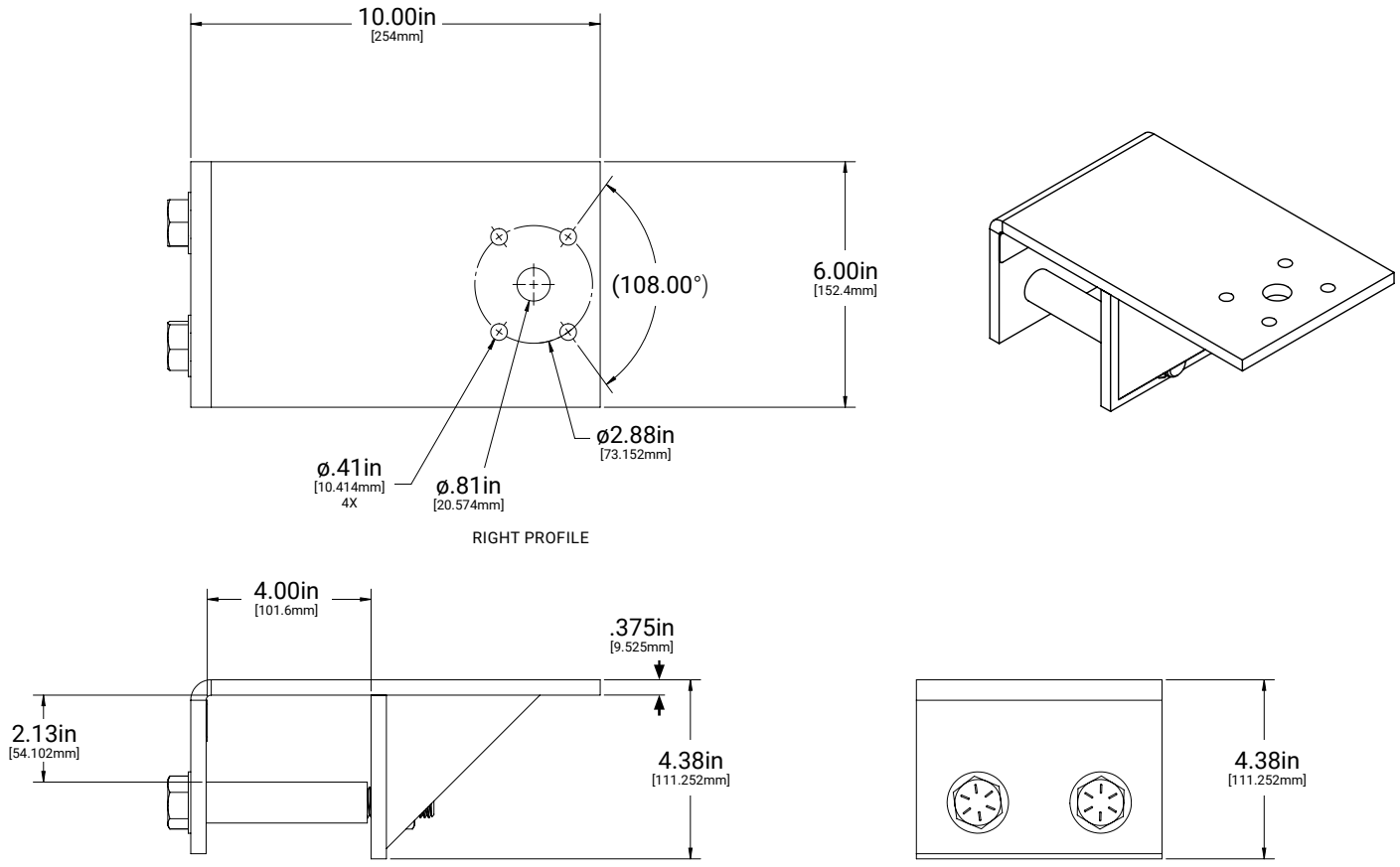
Extension Plate Data

MODEL #	WEIGHT (LBS)
EXTPLT	14.63
EXTPLT + HRDM58-050	15.28

Extension Plate Kit Parts

DESCRIPTION	QUANTITY
Extension Plate	1
Washer Plate	1
5/8in Hex Bolt	1
5/8in Washer	2
5/8in-11 Hex Nut	1
5/8in Split Washer	1
3/8in Washer	2
3/8in Hex Bolt	1
3/8in Split Washer	1
3/8in-16 Hex Nut	1

Diving Board (DVGBRD) Dimension and Part Details:



Diving Board Data

MODEL #	WEIGHT (LBS)
DVGBRD	15.1
DVGBRD + HRDM34-025	16.1

Diving Board Parts

DESCRIPTION	QUANTITY
Welded Bracket	1
Bolt Sleeve	2
3/4in-10 X 6in Structural Hex Bolt, Hot Dip Galvanized	2
3/4in Steel Flat Washer, Hot DIp Galvanized	2
3/4in Ext Tooth Washer, Steel, Magni-565 Grey Polycoat	2
3/4in-10 Structural Steel Hex Nut, Hot Dip Galvanized	2
Stainless Shim	1

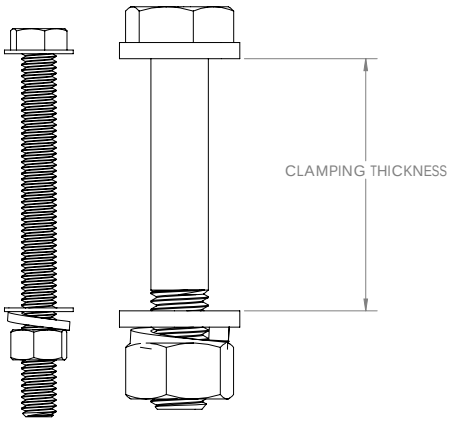
HRDM58 Dimension and Part Details:

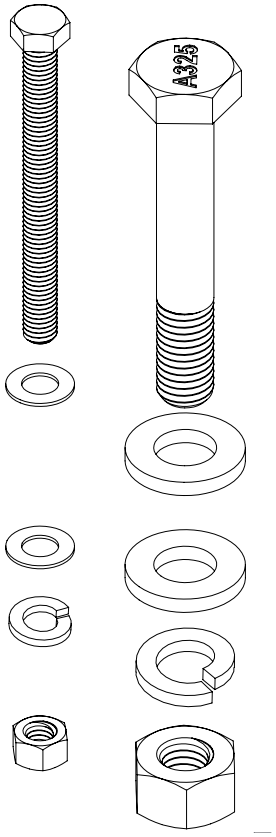
HRDM58-050:
.375-.500in clamping thickness, Use for Extension Plate (EXTPLT) or other flat surfaces drilled for 5/8in hardware

HRDM58-200:
2.00in clamping thickness, use for 2in x 4in Cross arms that are drilled for 5/8in hardware

HRDM58 Data

MODEL #	WEIGHT (LBS)
HRDM58-050	.65
HRDM58-200	.84





HRDM34 Dimension and Part Details:

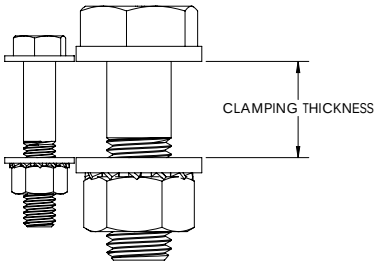
HRDM34-025:
.25-.50in clamping thickness, use for diving board (DVGBRD) or other flat surfaces drilled for 3/4in hardware

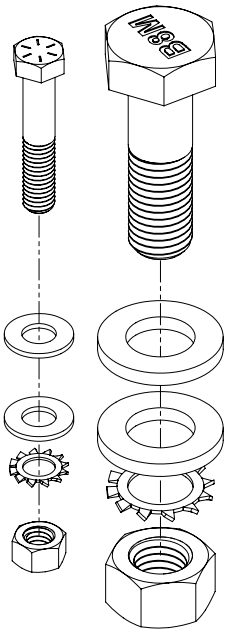
HRDM34-075:
.50-.75in clamping thickness, flat surfaces drilled for 3/4in hardware

HRDM34-200:
2.00in clamping thickness, use for 2in x 4in Cross arms that are drilled for 3/4in hardware

HRDM34 Data

MODEL #	WEIGHT (LBS)
HRDM34-025	1
HRDM34-075	1.5
HRDM34-200	2

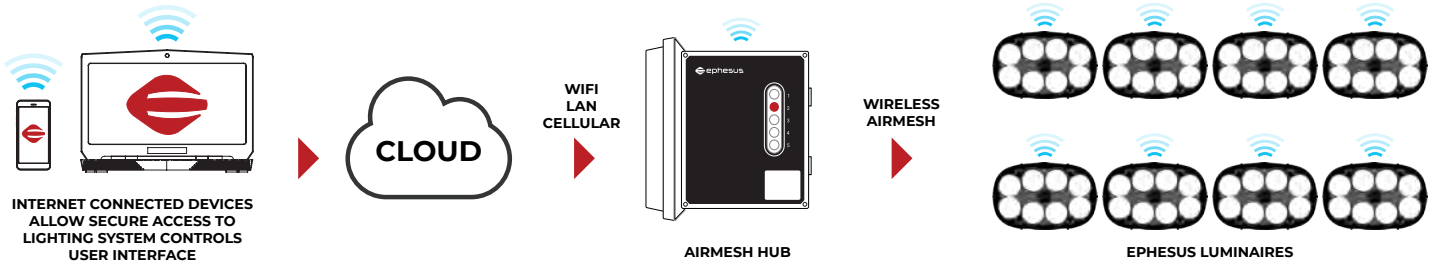




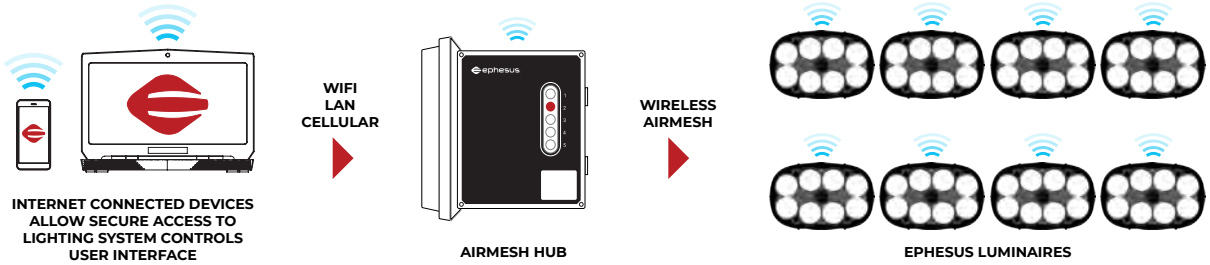
Example System Topology (Wireless AirMesh Controls)

Example system topology showing the LUMA**SPORT 8** Integral System in a Wireless AirMesh Control Installation. Note: Laptop and mobile device not included. A cellular network connection requires a cellular carrier network plan.

REMOTE ACCESS

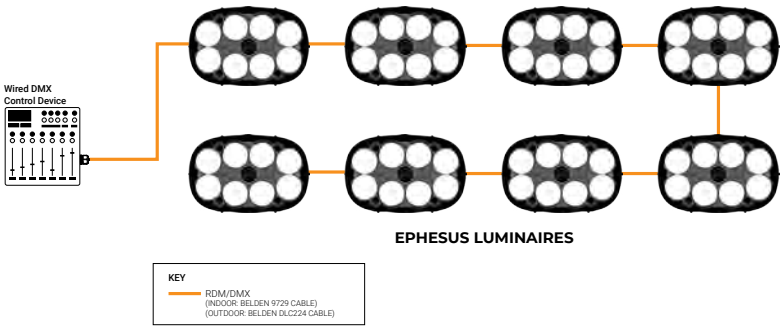


ON SITE ACCESS



Example System Topology (Wired DMX Controls)

Example system topology showing the LUMA**SPORT 8** Integral System in a commonly used wired DMX Control Installation. Refer to the specifications and limitations of your wired DMX control device before installing this configuration.



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Syracuse, NY 13202
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www.EphesusLighting.com

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Specifications and dimensions
subject to change without notice.

Project		Catalog #		Type	
Prepared by		Notes		Date	

Ephesus

AirMesh Hub

Wireless Lighting System Controls

Typical Indoor/Outdoor Applications

• Professional Stadiums & Arenas University/Collegiate Stadiums & Arenas • K-12 Stadiums & Arenas • Game Fields • Practice Fields • Multi-use Recreational & Municipal Fields • Public Assembly & Convention Centers • Gymnasiums & Field Houses • Unmanned Sports Facilities

Interactive Menu

- AirMesh Hub page 1
- Product Overview page 2
- Dynamic Scenes page 3

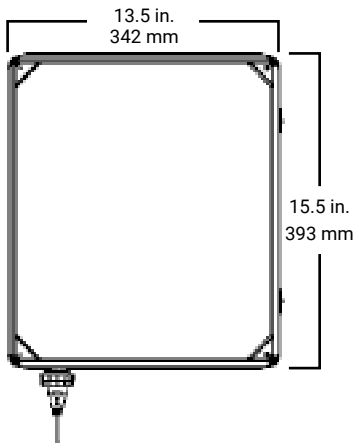
Product Certification

Top Product Features

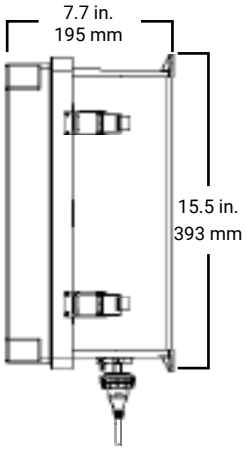
- Can be installed anywhere you need wireless, push-button control
- Five-button, pre-programmed switch provides easy control of all lights at specified dimming levels (0%,25%, 50%, 75%, 100%)
- Can communicate via LAN connection, Wi-Fi, or through a cellular network*
- Weather-protected for outdoor venues
- Includes internal surge protection
- Enables Static and Dynamic Scenes

Dimensional Details

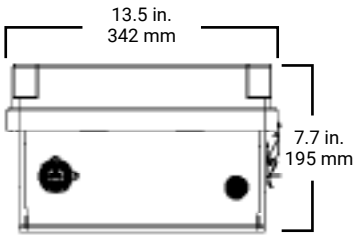
HEAD ON



LEFT PROFILE



BOTTOM



Due to our continuous improvement efforts, specifications are subject to change without notice.
*Cellular and/or data charges may apply

Product Overview

The AirMesh Hub is an Ephesus component that can be installed anywhere you need wireless push-button lighting control, such as municipal ballparks, hockey arenas, basketball facilities, and other multi-use complexes. The AirMesh Hub is easy for certified electricians to install in both indoor and outdoor applications that's contained in the NEMA 4X enclosure. The 5-button 25 scenes (5 per button) controller allow for local manual access to facility lighting across specific zones or over the entire lighting installation. The AirMesh Hub enables quick and simple access to a switch station that can be programmed with unlimited options to meet the needs of the end-user.

AirMesh Hub Specifications

Dimensions	15.5" x 13.5" x 7.7" (393 x 342 x 195 mm)
Input Power	Outdoor rated power supply 90-120VAC; 8W max, 6kV surge protection
Operating Environment	Outdoor rated at -20°C to +55°C, IP65 (when latched)
Cellular	Verizon 4G LTE
Wi-Fi	802.11 b/g/n
Radio	SNAP 2.4GHz 802.15.4 Wi-Fi 2.4Ghz 802.11 b/g/n
Certifications	FCC/IC; Tested to CAN/CSA C22.2 No. 60950-1/A2:2014 and UL 60950-1/R:2014-10
Ratings	IP65[1,2]

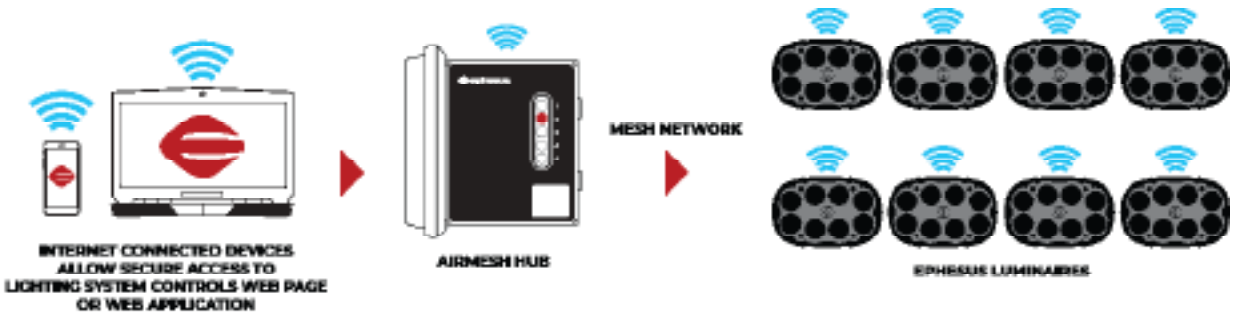
AirMesh Function

	Description
Maximum number of lights controlled by hub	Up to 1000
Maximum distance of fixture from location of hub	500 feet
Maximum allowable distance from one fixture to next	500 feet
Maximum number of programmable pre-set scenes	25 (5 per button)
Individual light control	Preprogrammed via 5-button hub. Additional scenes and light control obtained via web interface with hub
Health monitoring[3]	Real-time monitoring of lighting status at the fixture and system level, outage notifications, storage of power consumption, temperature and other system parameters which can be retrieved for later analysis*
Remote Connectivity	Web interface can be accessed by direct Wi-Fi connection or through internet via Ethernet or built-in cellular*
Alerts	Email alerts available when connected to internet via Ethernet or built-in cellular*
Users	User and administrative accounts with multiple permission levels available
Sensors	Voltage-sourcing sensors can be added to the system to turn lights on/off with daylight or occupancy sensors. Multiple output levels in response to light sensors (daylight harvesting)
Map View	Ability to view light state (on/off/alarm) in graphical map/satellite view
Scheduling	Ability to schedule recurring events at fixed times or based on astronomical clock
Compatibility	Ability to add control modules to existing lighting fixtures to add Air-Mesh functionality to entire facility

Notes:
Due to our continuous improvement efforts, specifications are subject to change without notice.
[1]To maintain IP rating of the unit, it must be installed with a IP65/NEMA 4X fitting at the power and ethernet entry points
[2]The AirMesh Hub holds a rating of IP65 for outdoor when the door is latched and all entry ports (power and Ethernet) are properly sealed. Failure to properly seal entry ports and latch the door will void the IP65 rating.
[3]Refer to the functionality of your Ephesus fixture for health monitoring capability.

Example System Topology (Wireless AirMesh Controls)

Example system topology showing the LUMA**SPORT** System in a Wireless AirMesh Control Installation.
Note: Laptop or mobile device not included. A cellular network connection requires a cellular carrier network plan.



aleo™ LED LIGHTING

Project	
Notes	
Type	Date
Cat. No.	

LPR-BL™ (SR/RC) Series

Slim LED Panel Retrofit Kit - Sensor Ready

DESCRIPTION

The Aleo LPR-BL™ (SR/RC) Series Slim LED Panel Retrofit Kit delivers industry-leading performance with deep energy savings and continuous dimming. Easy and quick installation reduces labor cost and optimizes ROI. The retrofit kit eliminates the need to replace existing luminaire housing, which reduces install time and disposal/removal costs. The slim profile, modern design produces pleasant, uniform and low-glare illumination, enhancing spaces in various applications.

APPLICATIONS

Retail, schools, offices, healthcare, and other various commercial applications .

LPS-BL™ UX Series

2x4 36W / 30W / 23W
2x2 25W / 22W / 18W
1x4 25W / 22W / 18W

Specification Features

Construction

Simple construction with minimal parts allows for easy handling and installation. Solid rigid frame, post-painted matte white finish for strength and durability. Low profile design optimizes shipping, storage, and handling.

Optical System

Back-lit optics produces soft balanced, comfortable luminance for productive spaces. Diffuser lens reduces glare and improves occupant comfort while maintaining high efficiency emission.

Certification

UL Classified. All components have UL certification. DLC Listed.

Warranty

7-year Limited Warranty. See warranty documentation for more information.

Electrical

Luminaire utilizes high-efficacy LED packages maintained at cool temperatures for long life, high efficacy. Reliable driver features continuous dimming. Universal voltage (120-277V) for convenient installation.

Installation / Mounting

Installs in most standard T-Bar ceiling grid systems. Retrofit kit fits within troffer and ceiling T-bar grid, eliminating need to remove existing fixture housing. Hinged door retrofit kit design.

Controls / Dimming

Continuous dimming (0-10V) comes standard. Suitable for use with dimmers, sensors, daylight harvesting and other control strategies to achieve deeper energy-savings and code compliance.

Field-Adjustable CCT / Wattage

Increased versatility and reduced inventory burden. Wattage and Color Temp. can be adjusted in the field by selecting (3) different wattages and (3) different CCTs via switch on driver.

Rated Life 75,000
Limited Warranty 7-Years
Efficacy Over 125 LPW
Continuous Dimming

CONTINUOUS DIMMING 0-10V Continuous

Quick ship

LPR-BL-24UX-36/8CT G5 (SR/RC)
LPR-BL-22UX-25/8CT G5 (SR/RC)
LPR-BL-14UX-25/8CT G5 (SR/RC)

Ordering Information

Example: LPR-BL-22UX-25/8CT G5 (SR/RC)

LPR-BL	22	UX	25	8	CT	[Blank]	[Blank]

Series
LPR-BL
LED Panel Retrofit Kit - Back Lit

Form Factor
24 2'x4'
22 2'x2'
14 1'x4'

Lumen Package
UX Field Adjustable

Nominal Max Wattage
2'x4' **36** 36W / 30W / 23W
2'x2' **25** 25W / 22W / 18W
1'x4' **25** 25W / 22W / 18W
* Utilize 3-way switch to select

CRI
8 80+

Color Temp
CT Field Adjust.
3500K
4000K
5000K
* Utilize 3-way switch to select

Input Voltage
Blank
120V-277V

Dimming
Blank
0-10V Continuous Dimming

[Blank]	[Options]

Sensor
(SR/RC)
Sensor Ready with Sensor Receptacle

Emergency Backup[1]
EM700 700lm

Controls
See Pg. 3 for details on sensors and controls
(Sensor Sold Separately)

Designation
BAA
Buy American Act Compliant

BABAA
Build America, Buy America Act Compliant

Specifications and Dimensions subject to change without notice.

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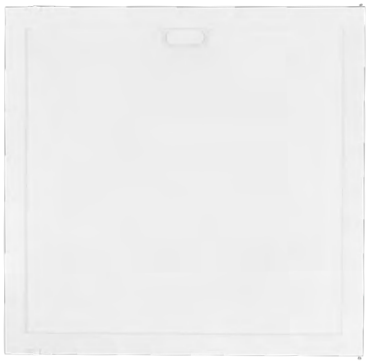
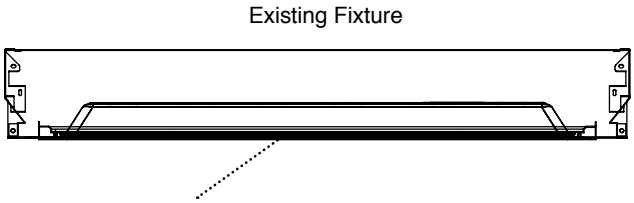
Performance Summary

Input Voltage	120V-277V
Input Frequency	50/60 Hz
Rated Wattage	See Performance Table
Delivered Lumens	See Performance Table
Efficacy	> 125 LPW (typ.)
CRI	83+, R9 > 0
Available CCT[2]	3500, 4000K, 5000K
Rated Life	75,000 hours
Power Factor	> 0.9
THD	< 20%
Dimming	0-10V Continuous (10-100%)
Operating Temp.	-20°C to 50°C





Sensors Options

Catalog No.	Description	Ordering	Shipping	Remote Control	Sensor Mounting
SPIR-OSDL/BT-PP3-DC-310	AleoBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	AleoBlue App	Snap-in
SPIR-OSDL/BTEZ-PP3-DC-121	SimplBlue Multi-level Wireless Bluetooth Occ Sensor w/ Daylight	Order and Ship Separately	Field Install	SimplBlue App	Snap-in

BAA and BABAA Compliant

BAA COMPLIANT

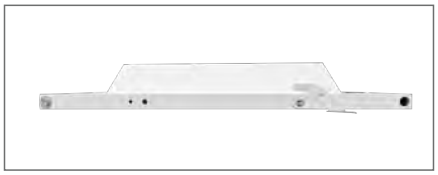
BAA - Buy America Act Compliant

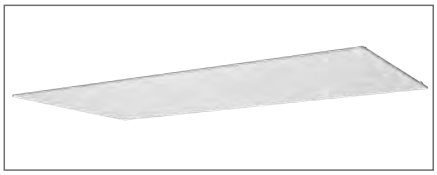
Complies and Qualifies for projects requiring Buy America Act (BAA) compliant product

BABAA - Build America, Buy America Compliant

Complies and Qualifies for projects requiring Build America, Buy America Act (BABAA) compliant product

*Note: BAA and BABAA product will require lead times approximately ranging from 12-18 weeks. Contact your Aleo representative for more information





NOTES:

1 IMPORTANT: THE BATTERY MUST BE RECHARGED EVERY THREE (3) MONTHS. IF NOT RECHARGED ACCORDINGLY, BATTERY MAY FAIL AND VOID WARRANTY

2 Typical color consistency. May vary or be changed.

Specifications and Dimensions subject to change without notice.

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Performance Data

Form Factor	Catalog No.	Nominal Wattage	Color Temperature	Lumens (lm)	Wattage (W)	Efficacy (lm/W)
2'x4'	LPR-BL-24UX-36/8CT G5 (SR/RC)	23	3500K	3,228	21.9	147.4
			4000K	3,356	21.0	159.8
			5000K	3,258	22.0	148.1
		30	3500K	4,147	29.0	143.0
			4000K	4,327	27.9	155.1
			5000K	4,193	29.2	143.6
		36	3500K	5,122	37.2	137.7
			4000K	5,349	35.8	149.4
			5000K	5,190	37.5	138.4
2'x2'	LPR-BL-22UX-25/8CT G5 (SR/RC)	18	3500K	2,304	18.0	128.0
			4000K	2,423	17.2	140.9
			5000K	2,331	18.1	128.8
		22	3500K	2,721	21.8	124.8
			4000K	2,856	20.8	137.3
			5000K	2,748	21.9	125.5
		25	3500K	3,050	25.0	122.0
			4000K	3,210	23.9	134.3
			5000K	3,082	25.1	122.8
1'x4'	LPR-BL-14UX-25/8CT G5 (SR/RC)	18	3500K	2,315	18.1	127.9
			4000K	2,465	17.3	142.5
			5000K	2,410	18.3	131.7
		22	3500K	2,721	21.8	124.8
			4000K	2,905	20.9	139.0
			5000K	2,840	22.1	128.5
		25	3500K	3,060	25.1	121.9
			4000K	3,257	24.0	135.7
			5000K	3,175	25.3	125.5

DLC QPL Data

QPL Model No.	Product ID	Technical Req.	Classification	Primary Use
LPR-BL-14UX-25/8CT G5 [-YYXX/ZZ]	S-JDYCWB	5.1	Premium	Integrated Retrofit Kits for 1x4 Luminaires
LPR-BL-22UX-25/8CT G5 [-YYXX/ZZ]	S-L1F1HQ	5.1	Premium	Integrated Retrofit Kits for 2x2 Luminaires
LPR-BL-24UX-36/8CT G5 [-YYXX/ZZ]	S-QP0R9F	5.1	Premium	Integrated Retrofit Kits for 2x4 Luminaires

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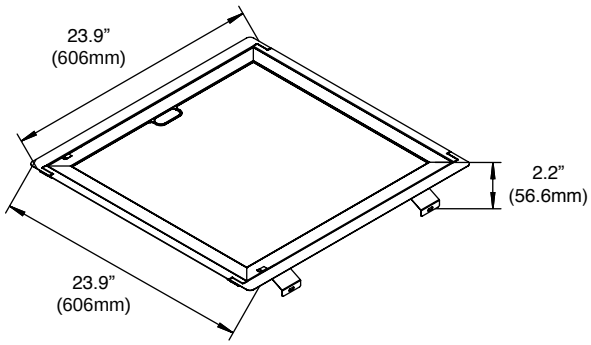
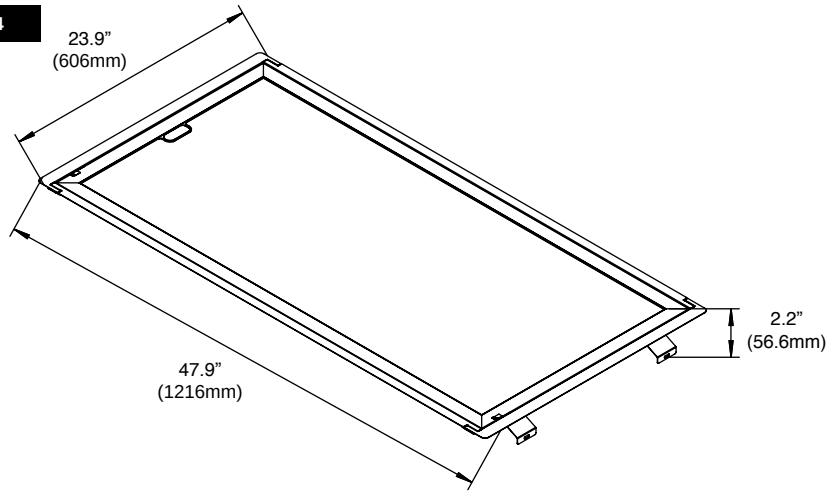
Product **Dimensions**

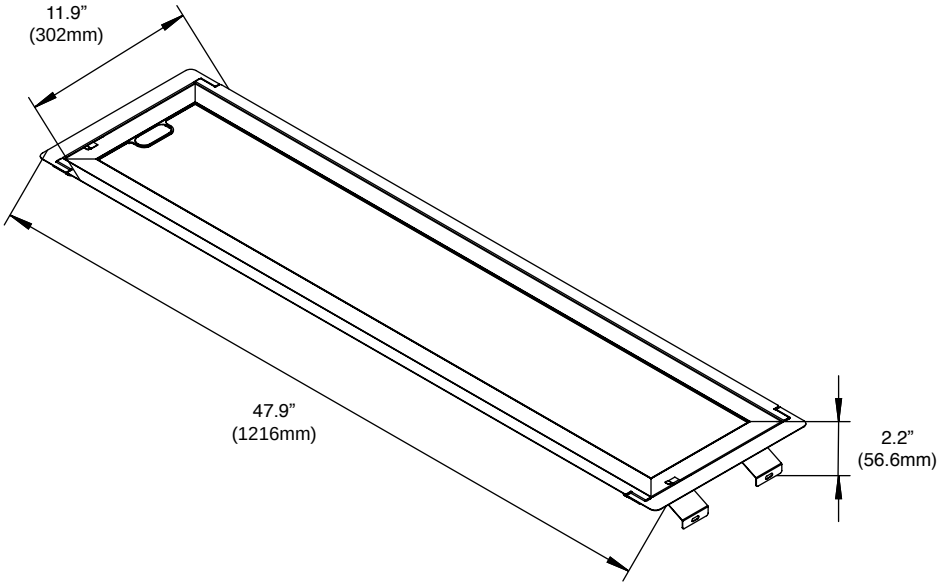
LPR-**22**



LPR-**24**



LPR-**14**



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aleoblue™

Learn More

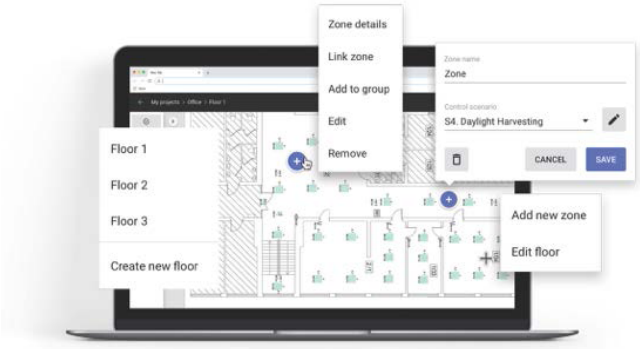
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

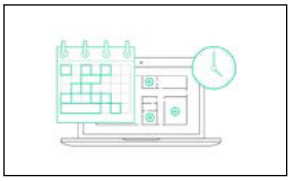
Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

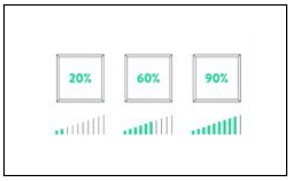


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

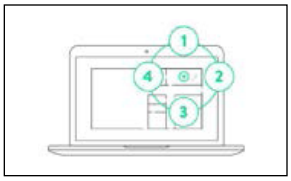
Scheduling



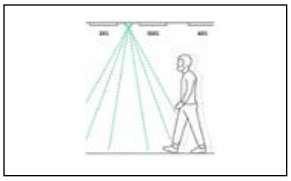
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

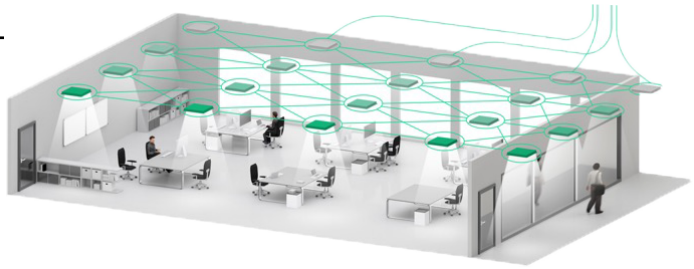
The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication

No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



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aleoblue™

Learn More

Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios

Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth mesh compatible app.

Ordering Information

Wireless Bluetooth Occupancy Sensor
Model: SPIR-OSDL/BT-PP3-DC-310

AleoBlue, Kinetic Powered Single-Rocker Switch
Model: WM-KN-DMSR/BT-200

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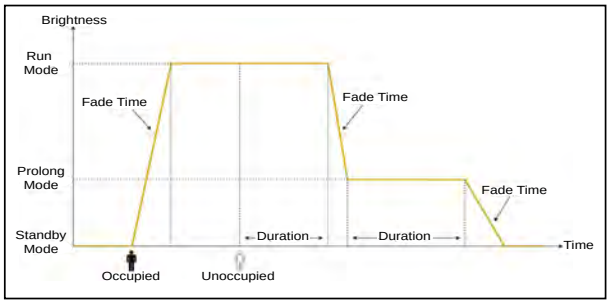
Lighting Control Scenarios

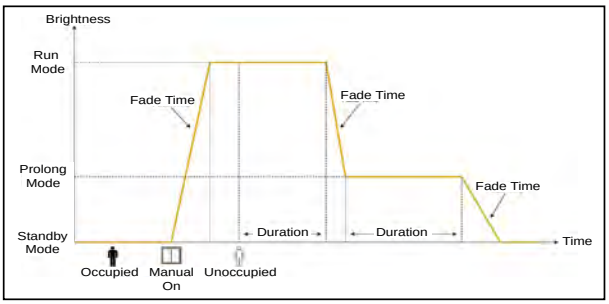
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

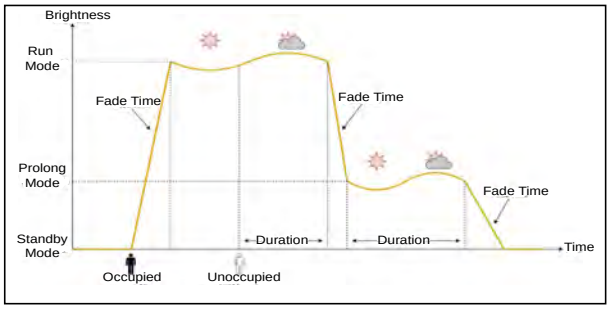
Occupancy Scenario



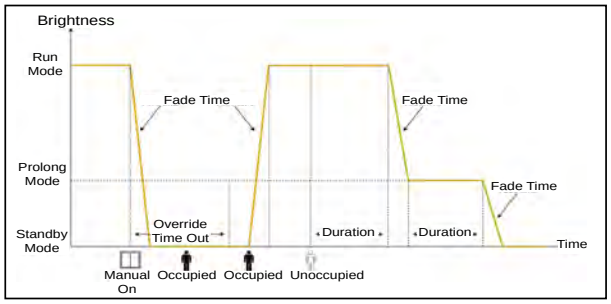
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



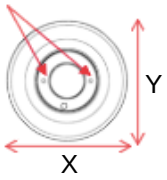
Occupancy Scenario with Manual Override

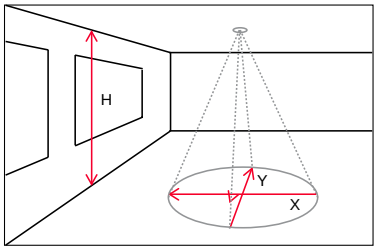


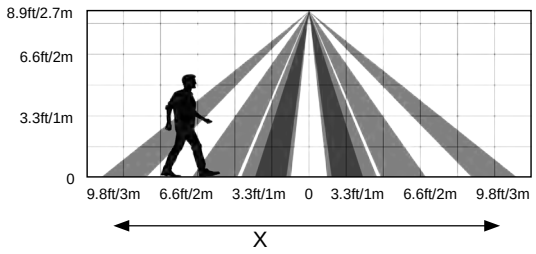
Occupancy Detection Pattern

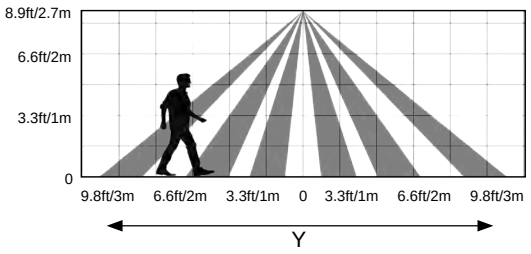
H	X	Y
7.9' (2.4m)	16.4' (5.0m)	16.4' (5.0m)
8.9' (2.7m)	18.4' (5.6m)	18.4' (5.6m)
9.8' (3.0m)	20.3' (6.2m)	20.3' (6.2m)

Orientation Indicators









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www.aleolighting.com
10988 Bloomfield Ave.
Santa Fe Springs, CA 90670
Ph: 877-358-8825

Project Name:	Type:
Part Number:	Date:

GREENCREATIVE

Value Select A Lamp Family

FEATURES

- Suitable to replace 60W incandescent lamps
- Comfortable diffused light
- Smooth dimming with most forward and reverse phase dimmers*
- Available in 2700K, 3000K, 3500K, 4000K and 5000K color temperatures
- Suitable for use in totally enclosed fixtures**
- Suitable for use in damp locations
- Fixture operating temperature: -4°F to 95°F (-20°C to 35°C)
- Lamp ambient temperature: -4°F to 113°F (-20°C to 45°C)
- Rated Lifetime (L70): 25,000hrs for 9W series,15,000hrs for 9.5W series
- 3 year limited warranty***

c UL us LISTED

FC

DOE REPORT

DIGITAL NAVIGATION Explore the spec sheet through the links below

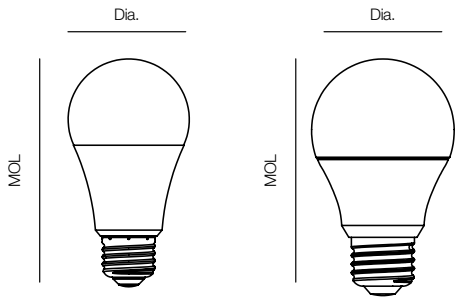
MINIMUM COMPARTMENT DIMENSIONS
LOGISTIC INFORMATION

SPECIFICATIONS

Product	Model	Equiv.	Wattage (W)	CCT	Lumens	Efficacy (LPW)	Input Voltage	Beam Angle	CRI	Dim.*	Base	Fixture Rating	Power Factor	DOE
36548	9A19DIM/827/R	60W	9	2700K	800	89	120V	230°	82	Yes	E26	Enclosed	0.7	√
36549	9A19DIM/830/R	60W	9	3000K	820	91	120V	230°	82	Yes	E26	Enclosed	0.7	√
36559	9A19DIM/835/R	60W	9	3500K	840	93	120V	230°	82	Yes	E26	Enclosed	0.7	√
36550	9A19DIM/840/R	60W	9	4000K	860	96	120V	230°	82	Yes	E26	Enclosed	0.7	√
36551	9A19DIM/850/R	60W	9	5000K	860	96	120V	230°	82	Yes	E26	Enclosed	0.7	√
36861	9.5A19DIM/827/R	60W	9.5	2700K	800	84	120V	230°	82	Yes	E26	Enclosed	0.7	√
36863	9.5A19DIM/840/R	60W	9.5	4000K	860	91	120V	230°	82	Yes	E26	Enclosed	0.7	√

FOOTNOTES:
* This lamp might not be compatible with all dimmers. Please visit www.greencreative.com for compatibility information.
** Suitable for use in totally enclosed non-IC fixtures only.
*** Please visit www.greencreative.com for Limited Warranty terms.

DIMENSION & WEIGHT



Model	Base	MOL	Dia.	Weight
9A19DIM/xxx/R	E26	4-3/8"	2-3/8"	0.067lb
9.5A19DIM/xxx/R	E26	4-3/16"	2-3/8"	0.06lb

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.

Value Select A Lamp Family

MINIMUM COMPARTMENT DIMENSIONS***

Model	Diameter	Height
9A19DIM/xxx/R	5-1/8"	7-1/2"
9.5A19DIM/xxx/R		

FOOTNOTES:
**** Installing lamp in a fixture that does not have the minimum compartment dimensions will void the warranty and could cause product failures.
Where xxx means 824-965 which indicates CRI and color temperature

LOGISTIC INFORMATION

Model	Master Carton			Shipping Carton		
	Case Qty	Case Dimensions (LxWxH)	Case Weight	Case Qty	Case Dimensions (LxWxH)	Case Weight
9A19DIM/xxx/R	N.A.	N.A.	N.A.	72pcs	15-9/16" x 15-9/16" x 10-5/8"	11.38 lb
9.5A19DIM/xxx/R	N.A.	N.A.	N.A.	50pcs	12-3/16“ x 12-3/16“ x 9-1/4"	5.16 lb

Where xxx means 824-965 which indicates CRI and color temperature

Note: All rights reserved. All sizes and specifications are subject to change at any time without notice.

KEYSTONE SINCE 1945 | DIRECTDRIVE LED LINE VOLTAGE T5 TUBES

KT-LED25T5HO-48GC-840-D /G2

T5 LED LAMP

DESCRIPTION

25W T5 LED | 4000K | >80 CRI | High Efficiency | 120-277V Input

RoHS Compliant | 5 YEAR WARRANTY

LAMP TYPE: Linear
BULB TYPE: T5 LED
BASE TYPE: G5 (Miniature Bi-Pin)
WATTAGE: 25W
COLOR TEMPERATURE: 4000K
COLOR RENDERING INDEX (CRI): >80
WARRANTY: 5 Years

PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- 50,000+ Hour Lifetime
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Direct Replacement for F54T5/HO Fluorencent Lamp
- Frosted Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20ºC/-4ºF to 45ºC/113ºF
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 120+ Lumens per Watt
- Improved Lamp Durability with Shatterproof Coated Glass
- ETL Sanitation Listed NSF/ANSI Standard 2 - Food Equipment
- Suitable for use in typical vapor tight fixtures up to 35C Ambient

OPERATING SPECIFICATIONS

ELECTRICAL CHARACTERISTICS

Input Voltage	Power Consumption	Power Factor	Input Current
120-277Vac	25W	>0.9	.21 @ 120V .09 @ 277V

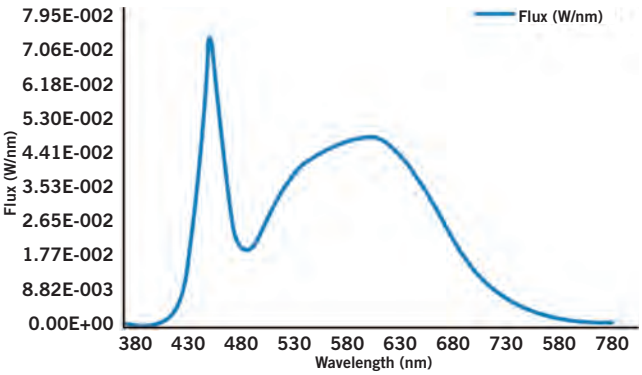
RATED LIFE

L70 (Hours)	50,000

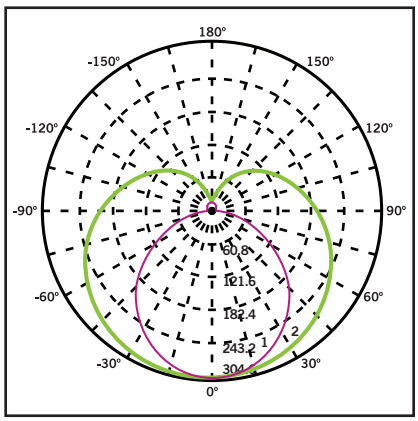
PHOTOMETRIC CHARACTERISTICS

Color Temperature (CCT)	4000K
Luminous Flux	3300 lm
Color Rendering Index (CRI)	>80
Efficacy	132 lm/W
Beam Angle	240º
Visible Light Area	325º

SPECTRAL DISTRIBUTION



POLAR CANDELA DISTRIBUTION



Located at Horizontal Angle = 0, Vertical Angle 0

1. **Violet** Vertical Plane through Horizontal Angles (90-270)
2. **Green** Vertical Plane through Horizontal Angles (0-180)

Keystone Technologies • 1390 Welsh Road, North Wales, PA 19454 • Phone (800) 464-2680 • Fax (888) 966-0556 • **www.keystonetech.com**

Specifications subject to change. Last revised on 12.12.17

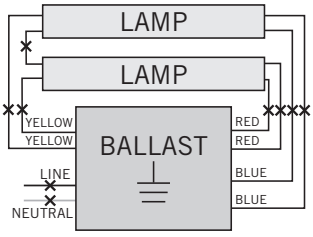
SINCE 1945 KEYSTONE | DIRECT DRIVE LED
LINE VOLTAGE T5 TUBES

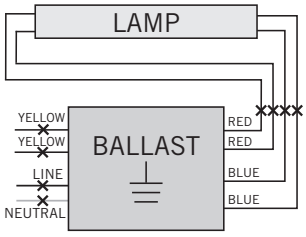
KT-LED25T5HO-48GC-840-D /G2
T5 LED LAMP

WIRING DIAGRAMS

1. Cut all existing connections to ballast as shown below and remove ballast.

Typical Ballast Configurations:





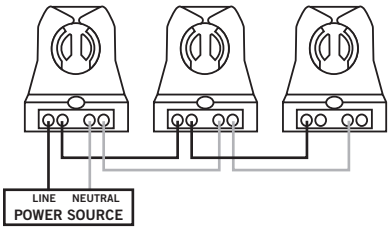
Typical Non-Shunted Lampholder

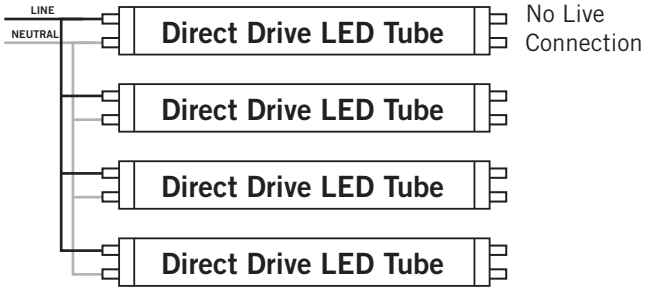
Connect wires directly to these terminals

CAUTION: Use only non-shunted lampholders.
Do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above.

Keystone can provide any style replacement lampholders. Call us at 800-464-2680.

2. Re-wire fixture as shown below.

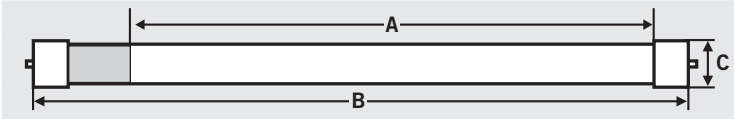




No Live Connection

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS



A (Illuminated Length)	40.56”
B (Body Length)	45.19”
C (Diameter)*	0.82”

NOMINAL LENGTH: 48” **BASE TYPE:** G5 (Miniature Bi-Pin)

*Though nominally referred to as a T5, this lamp has a T6 diameter

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KT-LED25T5HO-48GC-840-D /G2-CP	Carton Pack (Egg Crate Packaging)	25	Quick Ship

CATALOG NUMBER BREAKDOWN

KT-LED25T5HO-48GC-840-D /G2-CP

Keystone Technologies	LED Lamp	Wattage	Lamp Type	Nominal Length (Inches)	Shatter-Proof Coated Glass	800 Series	Color Temp.	Direct Drive Series	2nd Generation	Packaging Style

SINCE 1945
KEYSTONE
LIGHT MADE EASY

DIRECTDRIVE DX2

SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

KT-LED10.5T8-48G-8XX-DX2 /G2

T8 LED LAMP

DESCRIPTION

10.5W T8 LED | 2700 - 5000K | >83 CRI | High Efficiency | Single or Double-ended Wiring | UL Type B

RoHS Compliant

5 YEAR WARRANTY

LAMP TYPE: Linear
BULB TYPE: T8 LED
BASE TYPE: G13 (Medium Bi-Pin)
WATTAGE: 10.5W
COLOR TEMPERATURE: 2700 - 5000K
COLOR RENDERING INDEX (CRI): >83
WARRANTY: 5 Years

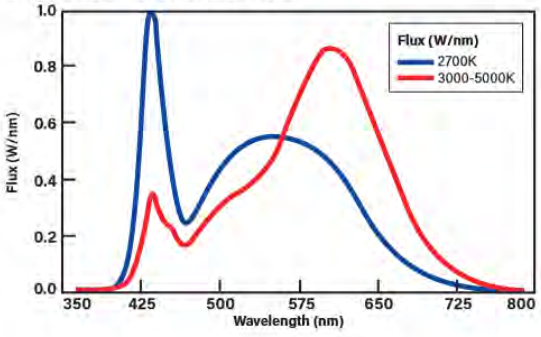
PRODUCT FEATURES

- Replacement for Conventional Fluorescent Lamp
- Single or Double-Ended Wiring
- 50,000+ Hour Lifetime
- Approximately 40% More Energy Efficient that Standard F32T8 Lamps
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- UL Classified
- Operating Temperature: -20°C/-4°F to 45°C/113°F
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast
- 157+ Lumens per Watt
- Compatible with KT-EMRG-LED-5-500-AC Emergency pack
- NSF Listed Component: NSF/ANSI Standard 2 - Food Equipment, Splash Zone (Not for Direct Food Zone without additional fixture considerations)
- Lamp is dimmable when used with an appropriate dimming accessory (purchased separately). Contact Keystone for more details to find out what is best for the intended application

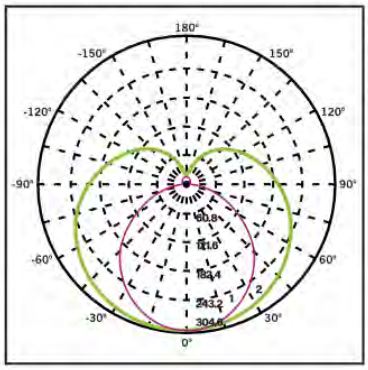
ELECTRICAL SPECIFICATIONS

Input Voltage	Wattage	Lumen Output	Efficacy	CCT	CRI	Beam Angle	Visible Light Area	Power Factor	Input Current	Lifetime
120–277 Vac 60Hz	10.5W	1650	157 lm/W	2700K	>83	240°	325°	>0.9	0.09mA @120V 0.04mA @277V	50,000 hrs
		1650	157 lm/W	3000K						
		1650	157 lm/W	3500K						
		1700	162 lm/W	4000K						
		1720	164 lm/W	5000K						

SPECTRAL DISTRIBUTION



POLAR CANDELA DISTRIBUTION



Maximum Candela = 1248.55
Located at Horizontal Angle = 0, Vertical Angle 0

1. **Violet** Vertical Plane through Horizontal Angles (90-270)

2. **Green** Vertical Plane through Horizontal Angles (0-180)

SINCE 1945 KEYSTONE LIGHT MADE EASY

DIRECTDRIVE DX2

SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

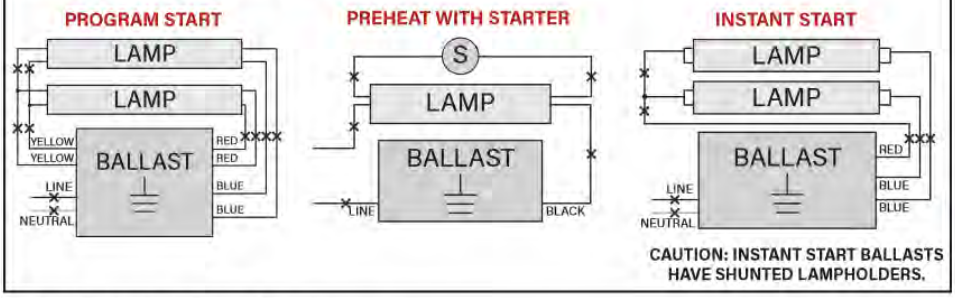
KT-LED10.5T8-48G-8XX-DX2 /G2

T8 LED LAMP

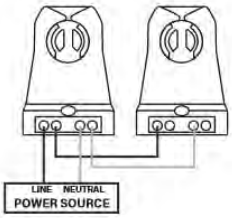
SINGLE-ENDED WIRING DIAGRAM

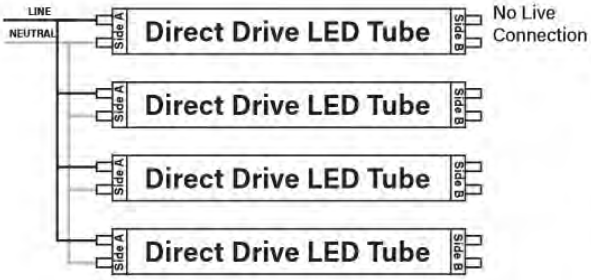
1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A for typical ballast configurations. **Note: Single-ended wiring requires non-shunted lampholders.**

Figure A Typical Ballast Configurations:

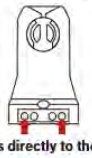


2. Re-wire fixture as shown below.





Typical Non-Shunted Lampholder



Connect wires directly to these terminals

CAUTION:
For Single-ended wiring use only non-shunted lampholders.

For Single-ended wiring, do not install product in a fixture with shunted lampholders (found in all fixtures using instant start ballasts). If the current lampholders are shunted, remove them and replace them with non-shunted lampholders. Make new connections directly to terminals as indicated above.

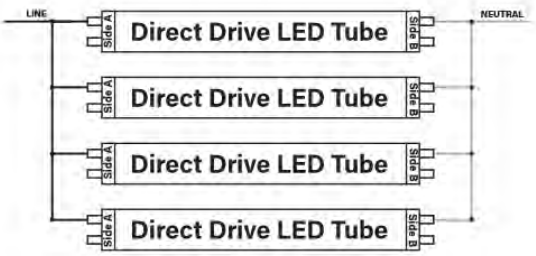
Keystone can provide any style replacement lampholders. Call us at 800-464-2680.

DOUBLE-ENDED WIRING DIAGRAM

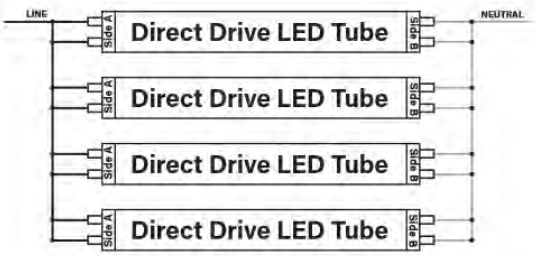
1. Cut all existing connections to ballast as shown below and remove ballast. See Figure A above for typical ballast configurations.

2. Re-wire fixture as shown below. For Double-ended wiring, use either shunted or nonshunted lampholders.
Note: There should not be any exposed wires at the end of installation.

Shunted Lampholders



Nonshunted Lampholders



SINCE 1945 KEYSTONE LIGHT MADE EASY

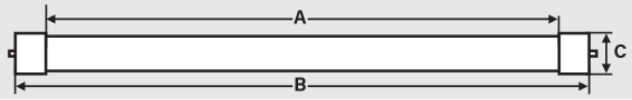
DIRECTDRIVE DX2
SINGLE- OR DOUBLE-ENDED LINE VOLTAGE LED TUBES

KT-LED10.5T8-48G-8XX-DX2 /G2

T8 LED LAMP

PHYSICAL CHARACTERISTICS

LAMP DIMENSIONS



A (Illuminated Length)	42.63″
B (Body Length)	47.15″
C (Diameter)	1.10″

NOMINAL LENGTH: 48″ **BASE TYPE:** G13 (Medium Bi-Pin)

ORDERING INFORMATION

ORDER CODE	PACK QTY.	UPC	EASY CODE	DLC PRODUCT ID
KT-LED10.5T8-48G-827-DX2 /G2	25	843654133607	HGU-37	N/A
KT-LED10.5T8-48G-830-DX2 /G2	25	843654132891	NBY-18	P8QG002Z
KT-LED10.5T8-48G-835-DX2 /G2	25	890949019290	GHI-44	P1BIUGUC
KT-LED10.5T8-48G-840-DX2 /G2	25	890949019306	DJL-35	PCRIB08Y
KT-LED10.5T8-48G-850-DX2 /G2	25	890949019313	RXT-56	PZM8WFJ2

CATALOG NUMBER BREAKDOWN

KT-LED10.5T8-48G-8XX-DX2 /G2

1 2 3 4 5 6 7 8 9 10

1. Keystone Technologies
2. LED Lamp
3. Wattage
4. Lamp Type
5. Nominal Length (inches)
6. Glass
7. 80 CRI
8. CCT
9. Single or Double-Ended Wiring
10. Second Generation

aleoblue™

Project	
Notes	
Type	Date
Cat. No.	

WM-KN-DMxR/BT-20y — **AleoBlue Wireless** Single & Double Rocker Kinetic Dimmer Switch

DESCRIPTION

The AleoBlue self powered wireless Bluetooth switches use no wires or batteries. Pressing the switch creates the energy to transmit a wireless signal that controls lights or other devices.

APPLICATIONS

Indoor: retail, education, hospitality, corporate, warehouse, self storage.

Specification Features

Overview

- Installs in minutes
- Requires no wiring
- Easy to configure
- Communicates with compatible receivers Reliable Range
- Transmission range up to 98.4ft (30m)
- Unique ID of each switch activates only the intended receiver(s)
- Waterproof grade: IP20

Certification

UL Listed. All components have UL certification.

Warranty

5-year Limited Warranty. See warranty documentation for more information.

Benefits

Save Time and Money: Avoid costly and time consuming installation of hardwire switches by choosing AleoBlue wireless switches and receivers. Installing a switch doesn't have to mean tearing open a wall.

Save Energy: Save energy and money by creating Manual ON / Auto OFF controls using AleoBlue switches and occupancy sensors or by programming all lights to respond to a single master switch. AleoBlue makes it easy to keep lights and systems off when not in use!

Simple Wireless Control

- Mount switches anywhere
- Create 3 way and 4 way switches
- Control lights, motors, or other electrical loads
- Reconfigure or relocate as needed

WM-KN-DMxR/BT-20y

AleoBlue, Kinetic Powered, Wireless Bluetooth Dimmer Switch, Single & Double Rocker, Wall Mount w/ Faceplate

Ordering Information

Example: WM-KN-DMSR/BT-200

WM	KN	DMSR/BT	200
Series	**Power Source**	**Controls**	**200**
WM Wall Mount	**KN** Kinetic Powered	**DMSR/BT** Single Rocker **DMDR/BT** Double Rocker	**Designator** 200 **Designator** 202

Specifications and Dimensions subject to change without notice.

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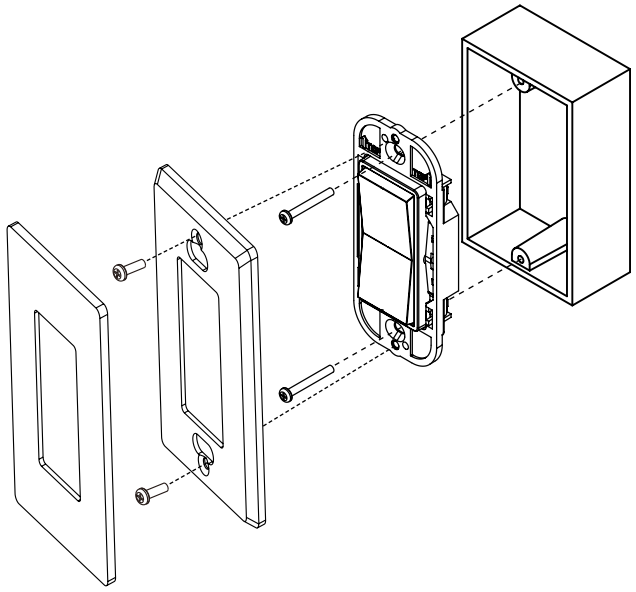
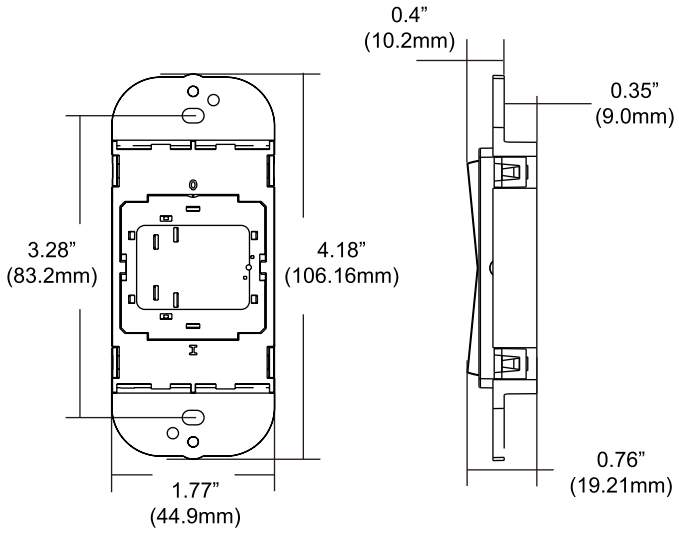
Performance Summary

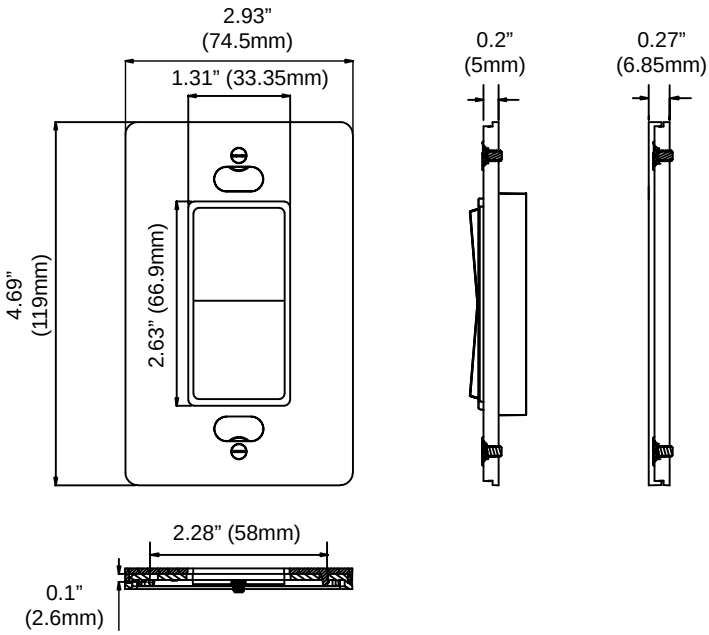
ELECTRICAL	
Protocol	Bluetooth® mesh
Power Supply	Self-powered by built-in nano generator
Transmission Frequency	2.4GHz
Transmission Range (line of sight)*	Min. 98.4ft (30m)
Protection Type	IP20
Dimming Range	0.1%-100%
PHYSICAL	
Dimensions	1.77" x 4.18" x 0.75" (44.9mm x 106.2mm x 19.2mm)

*Transmission Range is highly dependent on the integration of fixtures, surrounding environment and conditions. It is recommended to conduct testing for range accuracy.



Dimensions





Specifications and Dimensions subject to change without notice.

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Learn More

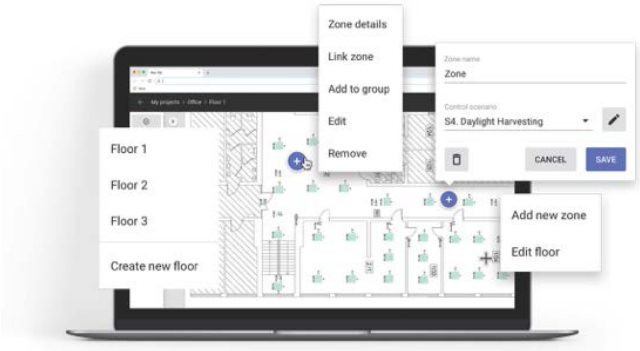
AleoBlue Wireless Bluetooth Controls

The AleoBlue is a complete solution for managing connected lighting systems using a Bluetooth Mesh lighting network. This enables seamless implementation of simple to complex lighting control scenarios without specialized training or lighting control engineering expertise.

DLC NLC Qualified.

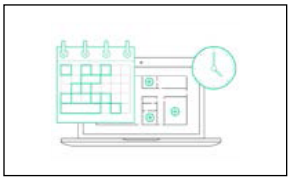
Features and Benefits

- Lighting Zones / Grouping
- Manual control of individual lights
- On Power up Behavior
- Zone Linking
- Vacancy Sensing
- Per fixture Daylight Control
- Per zone Daylight Control

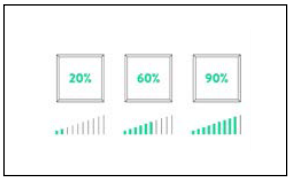


- Optimized Energy Consumption
- Less Hassle with On-Site Adjustments
- More Savings
- Increased Safety
- More Flexibility

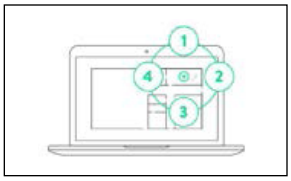
Scheduling



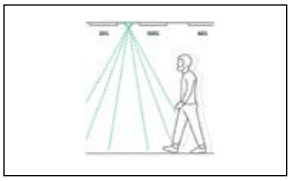
High and Low End Trim



Scenes



Occupancy Sensing



- Intuitive and user-friendly web and iOS apps
- No specialized training or lighting control expertize required
- Optimized for commercial spaces of any size
- No additional wiring or central control box
- Customizable lighting control parameters
- Future proof with Software Updates
- Multiple Zone Configurable
- Built-In Scenarios + Customization

Bluetooth Mesh Technology Advantages

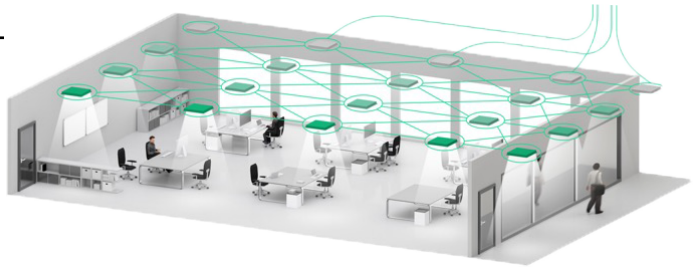
The fastest low-power communication

Scalability to thousands of devices

The most advanced encryption standards as well as the cutting-edge device authentication

No single point of failure (no central device)

Compatibility with a widely available devices (smart phones & tablets – both with Bluetooth 4.0 and Bluetooth 5)



Specifications and Dimensions subject to change without notice.

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aleoblue™

Learn More

Planning

Remote preparation of a retrofit project with the use of our web app. Uploading floor plans, defining individual lighting zones and choosing lighting control scenarios.

1. Import Floor Plans
2. Define Individual Lighting Zones
3. Specify Desired Lighting Control Scenarios

Implementation

Adding lighting devices to the Bluetooth mesh network on-site with the use of an iOS app.

Customization and calibration of lighting control parameters during and after the commissioning process. Defining scenes for specific working activities.

1. Add Devices to Your Connected Lighting Network
2. Implement Predefined Zones and Scenarios
3. Optimize Configuration Settings if Needed

Provisioning / Configurations

The Bluetooth mesh Node is in the Unprovisioned Mode until it is provisioned by a “Provisioner”, which typically is a smart phone with a Bluetooth mesh compatible app.

Ordering Information

AleoBlue Wireless Single Rocker Kinetic Dimmer Switch
Model: WM-KN-DMSR/BT-200

AleoBlue Wireless Double Rocker Kinetic Dimmer Switch
Model: WM-KN-DMDR/BT-202

Specifications and Dimensions subject to change without notice.

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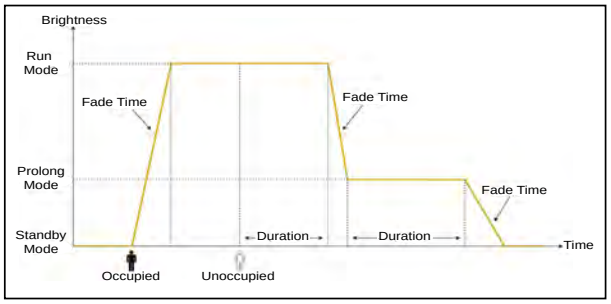
Lighting Control Scenarios

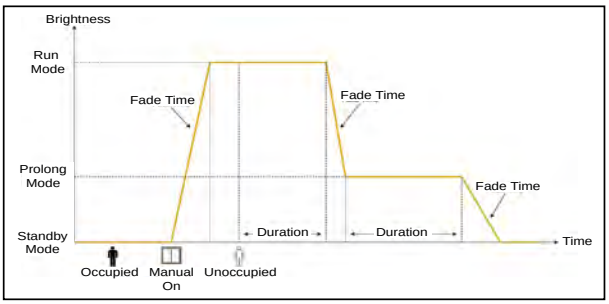
Multiple lighting control scenarios are available once the Bluetooth mesh Node is provisioned. At each scenario, duration, fade time and target brightness can be configured at any time with the iOS app.

Mode / Scenario	Wireless Switch	Occupancy Sensor	Ambient Light Sensor
Unprovisioned Mode	-	-	-
Switch	On / Off / Scenes	-	-
Occupancy	On / Off / Scenes	Auto On / Off	-
Vacancy	On / Off / Scenes	Auto Off	-
Occupancy with Daylight Harvesting	On / Off / Scenes	Auto On / Off	Enabled
Vacancy with Daylight Harvesting	On / Off / Scenes	Auto Off	Enabled

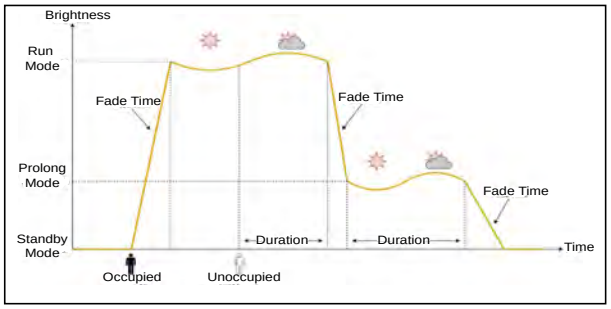
Occupancy Scenario



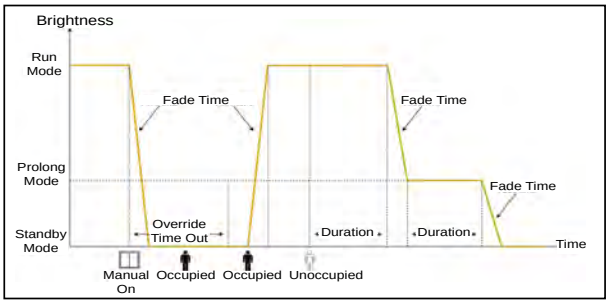
Vacancy Scenario



Occupancy Scenario - with Daylight Harvesting



Occupancy Scenario with Manual Override



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Product Data

WeatherMaker®
Single Package Heat Pump
Rooftop

7.5 to 12.5 Nominal Tons

ecoblue™ technology

50FEQ*08, 09, 12, 14

Single-Packaged Heat Pump with Optional Electric Heat and Puron Advance™ Refrigerant (R-454B)

© 2026 Carrier

Form 50FEQ-8-14-01PD Rev. B

Features/Benefits

Carrier's WeatherMaker® packaged heat pump rooftop units (RTUs) with Puron Advance™ and EcoBlue™ Fan Technology offer an environmentally responsible solution for a brighter future.

For over 70 years the WeatherMaker® line has stood for cooling solutions that are innovative, high quality, and easy to use. Carrier's new 50FEQ rooftops continue our legacy of progress with Puron Advance™, our low global warming potential refrigerant. With competitive efficiencies, EcoBlue fan technology, locally available stock, and direct fit footprints, new installations and replacements are easier than ever.

New major design features include:

- Environmentally balanced Puron Advance (R-454B) refrigerant, which delivers a 75% reduction in global warming potential (GWP) compared to the original Puron. Puron Advance's GWP of 466 easily exceeds the EPA (Environmental Protection Agency) requirement of <700 GWP.
- A patented, industry-first efficient indoor fan system with an electronically commutated variable speed motor for simplicity and efficiency. When compared to traditional belt-driven forward curve fans, our reliable system has:
  - 75% fewer moving parts
  - Up to 40% greater efficiency
  - No fan belts, pulleys, shaft, or shaft bearings
  - Better sound and comfort control due to slow ramp-up capability
  - Internal protection from phase reversal and phase loss situations
  - High external static capability
  - Slide out blower assembly design
- Reliable 2 stage cooling with tandem scroll compressors technology and fully active evaporator coil
- Unit control board (UCB) with intuitive indoor fan adjustment that uses simple dial and switch configuration
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge and weight versus prior designs

Our WeatherMaker 50FEQ 7.5 to 12.5 ton units are specifically designed to fit on Carrier roof curbs installed as far back as 1989. That makes replacement fast and easy, eliminating the need for curb adapters, different utility connections, or supporting curb overhang situations.

Two-speed staged air volume (SAV) vane axial indoor fan speed control helps deliver IEERs up to 15.0. All models are field convertible and capable of either vertical or horizontal airflow. The size 14 models require a field-installed supply air kit.

With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Your new 7.5 to 12.5 ton Carrier WeatherMaker RTU provides optimum comfort and control from a packaged rooftop.

Value-added features include:

- SystemVu™ intuitive, intelligent controls option that provides:
  - Large, full text, multi-line display
  - USB flash port for data transfer
  - Built in i-Vu®, CCN, and BACnet®[1]
  - Easy-to-read refrigerant pressures shown via the display — no checking gauges
  - Quick LED Status for Run, Alert, and Fault
  - Conventional thermostat or sensor capabilities
  - Historical component runtime and starts
  - Supply air tempering
  - Network Service Tool compatibility
- Single point electrical connections
- TXV refrigerant metering devices on 7.5 to 12.5 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Easy to install

All 7.5 to 12.5 ton WeatherMaker units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. The 12.5 ton models require a simple supply duct cover kit to field convert from factory vertical to horizontal. Our units are light, making them easy to replace and aiding in the structural approval process. Our standard integrated unit control board (UCB) has simple, fast, clearly labeled plug-in connection points that reduce installation time. Should a job need additional features, our large control box provides room to work and mount Carrier accessories.

1. Third-party trademarks and logos are the property of their respective owners.

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Features/Benefits (cont)

Easy to maintain

With the EcoBlue vane axial fan system and direct drive ECM motor, belts and pulleys are a thing of the past. This frees up maintenance, installation and commissioning time. Should an adjustment be necessary, it can easily be made via the UCB in the control box. For regular service activities, our easy-access handles provide a quick solution to all commonly accessed service panels, and our sloped, corrosion-resistant composite drain pan sheds water and will not rust. Service gauge connections are included on compressor suction/discharge lines and before and after the filter drier to monitor system operation during maintenance.

Easy to use

Carrier's re-designed unit control board puts all connections and troubleshooting points in one convenient place. Most low voltage connections use the same board and are easy to access. Setting up the fan is simple using an intuitive switch and rotary dial arrangement. Our rooftops have high and low pressure switches, a filter drier, and 2 in. filters standard.

Heat pump flexibility

50FEQ models offer onboard electromechanical heating standard. Our robust systems are rigorously tested to ensure reliable reverse cycle heating operation. The result is a clean, environmentally responsible heat source to keep occupants comfortable year-round. All 50FEQ models can be easily controlled with a standard thermostat and remove the need to burn fossil fuels to heat your building. Should you need supplemental heat, we offer a full line of single point powered electric heaters that can easily be installed at site.

Puron Advance™ features

In 2018, Carrier announced Puron Advance (R-454B) as our next generation refrigerant for light commercial rooftops. With a GWP of 466 and similar working pressure and performance to R-410A, Puron Advance easily exceeds the EPA's new, stringent <700 GWP refrigerant requirement while minimizing unit redesign. Like other next generation refrigerants (R-32, etc.), R-454B is classified as an "A2L" refrigerant by ASHRAE®[1] (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). This designation means that R-454B is "mildly flammable" under certain conditions. While this is a change from legacy "A1 — No Flame Propagation" refrigerants like Puron (R-410A), A2Ls are still very low on the flammability scale and quite safe for use. A2L refrigerants are difficult to ignite and have an extremely low flame speed — much less so than natural gas, propane, or even rubbing alcohol. At Carrier, we are committed to safety. As such, all of our Puron Advance rooftop units include a factory-installed dissipation control board and leak sensor designed to last the lifetime of the unit. This system is certified to UL 60335-2-40 and designed to work right away, without any field configuration or wiring. In the event of a leak, these systems automatically identify and resolve the issue by safely dissipating the refrigerant to ensure there is no risk to equipment, buildings, or occupants.

EcoBlue™ Technology

Our direct drive EcoBlue indoor fan system uses vane axial fan design and electronically commutated motor. The benefit is clear: when compared to legacy belt drive systems, this vane axial design has 75% fewer moving parts, uses up to 40% less energy, and has no belts, blower bearings, or shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaker rooftop heat pump units to existing building automation systems easy. The units are compatible with conventional thermostat controls or SystemVu™ controls for greater comfort, diagnostics, and building network integration.

Operating efficiency and flexibility

The 50FEQ packaged rooftops meet DOE 2023 efficiency standards, as well as ASHRAE 90.1 and IECC®[1] (International Energy Conservation Code) minimum IEER efficiency requirements.

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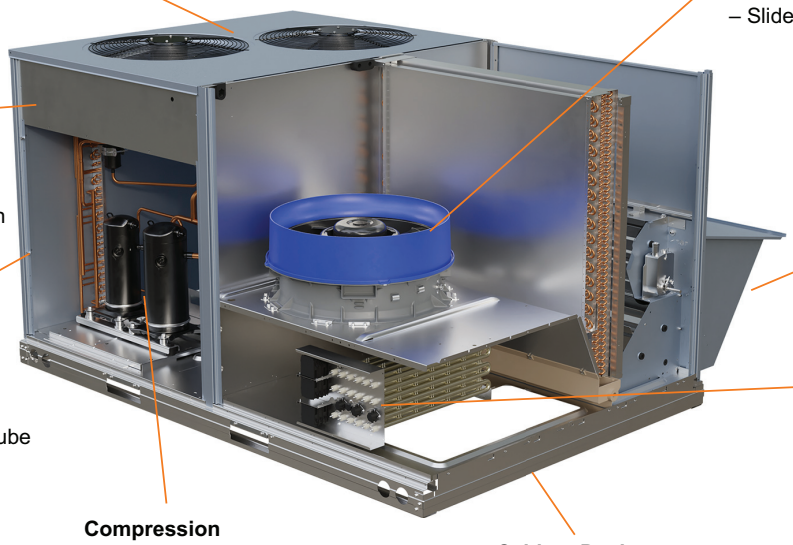
Features/Benefits (cont)

WeatherMaker®
with ecoblue™ technology
50FEQ 7.5 – 8.5 Ton Models shown



High Efficiency Outdoor Fan
– Non-corrosive blades
– Balanced blades
– Efficient airflow collar

Vane Axial Indoor Fan
– Direct drive ECM
– Slow ramp up
– Phase loss protection
– No belts or pulleys
– Slide out design

Unit Controls
– Base unit controller
  Switch/dial fan setting
  Large terminal connections
– SystemVu™ control option

Air Management
– Factory - Field economizers
– 4 inch MERV-13 filters
– Tool-less Filter Access door

Efficient Coils
– Round tube/plate fin
– Copper/Aluminum
– Special coating available
– New 5/16 in. condenser tube
– TXV metering device

Heating
– Electric Heating
  Field installed accessory
  Integral fusing
  Multiple kW sizes available
  Terminal block connections
  Single point power

Compression
– Fully hermetic scroll
– Internally protected
– Tandem stage design
– Safety switch protected

Cabinet Design
– Heavy gauge base rails
– Large handled access panels
– Embossed strengthened base pan

Model number nomenclature

50FEQ 08-14 Model Number Nomenclature

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Example:	5	0	F	E	Q	M	0	8	A	2	A	6	-	0	A	0	A	0

Unit Type
50 – Cooling with Electric Heat

Model Series
FE – Entry Tier Puron Advance™ Rooftop

Heat Size
Q = Heat Pump

Refrig. Systems Options
M = Two Stage Cooling, Single Circuit

Cooling Tons
08 = 7.5 tons
09 = 8.5 tons
12 = 10.0 tons
14 = 12.5 tons

Sensor Options
A = None
B = Return Air Smoke Detector (RA)[a]
C = Supply Air Smoke Detector (SA)
D = RA + SA Smoke Detector[a]
J = Condensate Overflow Switch (COFS)
K = Condensate Overflow Switch + RA Smoke Detector[a]
L = Condensate Overflow Switch + RA and SA Smoke Detectors[a]
M = Condensate Overflow Switch + SA Smoke Detector

Fan Options
2 = Standard/Medium Static – EcoBlue Vane Axial Fan
3 = High Static – EcoBlue Vane Axial Fan
5 = Standard/Medium Static – EcoBlue Vane Axial Fan and Filter Status Switch
6 = High Static – EcoBlue Vane Axial Fan and Filter Status Switch

RTPF Coil Options – (Outdoor - Indoor — Hail Guard)
A = Al/Cu - Al/Cu
B = Precoat Al/Cu - Al/Cu
C = E-coat Al/Cu - Al/Cu
D = E-coat Al/Cu - E-coat Al/Cu
M = Al/Cu - Al/Cu — Louvered Hail Guard
N = Precoat Al/Cu - Al/Cu — Louvered Hail Guard
P = E-coat Al/Cu - Al/Cu — Louvered Hail Guard
Q = E-coat Al/Cu - E-coat Al/Cu — Louvered Hail Guard
R = Cu/Cu - Al/Cu — Louvered Hail Guard
S = Cu/Cu - Cu/Cu — Louvered Hail Guard

Voltage
1 = 575-3-60
5 = 208/230-3-60
6 = 460-3-60

Packaging
0 = Standard

Electrical Options
A = None
C = Non-Fused Disconnect (NFDC)
D = Thru-the-Base Connections (TTB)
F = NFDC + TTB
N = Phase Monitor Protection (PMR)
Q = PMR + NFDC
R = PMR + TTB
T = PMR + NFDC + TTB
1 = HSCCR[b] (High Short Circuit Current Rating)
2 = HSCCR[b] + TTB

Service Options
0 = None
1 = Unpowered Convenience Outlet (NPCO)
2 = Powered Convenience Outlet (PCO)
3 = Hinged Panels (HP)
4 = Hinged Panels + NPCO
5 = Hinged Panels + PCO
6 = 4-Inch MERV-13 Filters (M13)
7 = NPCO + MERV-13 Filters
8 = PCO + MERV-13 Filters
9 = Hinged Panels + MERV-13 Filters
A = HP + NPCO + MERV-13 Filters
B = HP + PCO + MERV-13 Filters

Intake / Exhaust Options
A = None
B = Standard Leak Economizer with Barometric Relief
F = Standard Leak Enthalpy Economizer with Barometric Relief
L = ULL (Ultra Low Leak) Temperature Economizer with Barometric Relief and CO_2 Sensor
M = ULL Enthalpy Economizer with Barometric Relief and CO_2 Sensor
U = ULL Temperature Economizer with Barometric Relief
W = ULL Enthalpy Economizer with Barometric Relief

Base Unit Controls
0 = Standard Electromechanical Controls (can be used with field installed economizers and dampers)
3 = SystemVu™ Controller
8 = Electro-mechanical Controls with POL224 (includes FDD[c])

Design Revision
- = Factory Design Revision

NOTE(S):
[a] Vertical airflow installation only
[b] Not available on 50FEQM12 units, 575-v units, or units with low ambient controls, factory-installed powered convenience outlet or non-fused disconnect.
[c] Fault Detection and Diagnostic

Capacity ratings

50FEQ*08-14 AHRI Ratings[a,b,c]

COOLING MODE								
UNIT	Cooling Stages	Nominal Capacity (tons)	Net Cooling Capacity (Btuh)	Total Power (kW)	EER	IEER with 2-Speed Indoor Fan Motor	AHRI Rating cfm	AHRI Part Load cfm
50FEQ*08	2	7.5	86,000	7.7	11.20	15.0	3000	1500
50FEQ*09	2	8.5	96,000	8.7	11.00	15.0	3400	1700
50FEQ*12	2	10.0	116,000	10.5	11.00	15.0	4000	2000
50FEQ*14	2	12.5	145,000	13.7	10.60	15.0	5500	2750

HEATING MODE					
UNIT	Heating, Low 17°F (–8°C) Ambient		Heating, High 47°F (8°C) Ambient		AHRI Rating cfm
	Net Capacity (Btuh)	COP	Net Capacity (Btuh)	COP	
50FEQ*08	45,000	2.25	84,000	3.40	3000
50FEQ*09	49,000	2.25	90,000	3.40	3400
50FEQ*12	72,000	2.25	112,000	3.40	5500
50FEQ*14	75,000	2.05	133,000	3.30	5500

NOTE(S):

a. Rated in accordance with AHRI Standards 340/360.
b. Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
IEER Standard: A measure that expresses cooling part-load EER efficiency for commercial unitary air-conditioning and heat pump equipment on the basis of weighted operation at various load capacities.
c. All 50FEQ units comply with ASHRAE 90.1-2019 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum IEER requirements.

LEGEND

AHRI — Air-Conditioning, Heating and Refrigeration Institute
COP — Coefficient of Performance
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio

Capacity ratings (cont)

Sound Rating Tables [a]

50FEQ UNIT	COOLING STATES	OUTDOOR SOUND (dB) AT 60 Hz[b]								
		A-WEIGHTED[c]	63	125	250	500	1000	2000	4000	8000
M08	2	82	89.7	81.5	80.5	79.2	77.1	73.2	70.2	67.4
M09	2	84	90.8	85.2	81.6	79.5	78.1	74.0	70.4	66.5
M12	2	87	88.1	90.0	85.9	83.0	81.6	78.5	76.4	75.5
M14	2	83	89.3	85.2	80.3	78.0	77.0	74.4	73.7	68.9

NOTE(S):

a. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
b. Outdoor sound data is measured in accordance with AHRI.
c. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of “average” human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

dB — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

UNIT	COOLING			ELECTRIC HEAT[a]	
	MINIMUM 2-SPEED AIRFLOW (LOW SPEED)	MINIMUM 2-SPEED AIRFLOW (HIGH SPEED)	MAXIMUM AIRFLOW CFM	MINIMUM AIRFLOW CFM	MAXIMUM AIRFLOW CFM
50FEQ*08	1350	2250	3750	2250	3750
50FEQ*09	1275	2550	4250	2550	4250
50FEQ*12	1800	3000	5000	3000	5000
50FEQ*14	2250	3750	6250	3750	6250

NOTE(S):

a. Electric heat modules and single point kits are available as field-installed accessories for 50FEQ units.

50FEQ 7.5 to 10 Ton Physical Data

50FEQ UNIT	50FEQ*08	50FEQ*09	50FEQ*12	50FEQ*14
NOMINAL TONS	7.5	8.5	10.0	12.5
BASE UNIT OPERATING WT (lb)[a]	805	867	955	1250
REFRIGERATION SYSTEM				
No. Circuits/No. Compressors/Type	1 / 2 / Scroll	1 / 2 / Scroll	1 / 2 / Scroll	1 / 2 / Scroll
Puron Advance™ (R-454B) Charge (lb-oz)	16-10	20-0	18-3	20-10
Cooling Metering Device	TXV	TXV	TXV	TXV
Heating Metering Device	TXV	TXV	TXV	TXV
High-Pressure Trip/Reset (psig)	630/505	630/505	630/505	630/505
Loss of Charge Trip/Reset (psig)	27/44	27/44	27/44	27/44
EVAPORATOR COIL				
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF
Rows/FPI	3/15	4/15	4/15	3/15
Total Face Area (ft^2)	11.1	11.1	11.1	17.5
Condensate Drain Connection Size	3/4 in.	3/4 in.	3/4 in.	3/4 in.
CONDENSER COIL				
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF
Rows/FPI	2/18	2/18	3/18	2/18
Total Face Area (ft^2)	25.1	25.1	25.1	36.1
EVAPORATOR FAN AND MOTOR				
Standard/Medium Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont bhp	2.4	2.4	2.4	3
Range (rpm)	250-2000	250-2000	250-2000	250-2200
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22	22	22	22
High Static 3 Phase				
Motor Qty / Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Max Cont bhp	3	3	5	5
Range (rpm)	250-2200	250-2200	250-2200	250-2200
Fan Qty / Type	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial	1 / Vane Axial
Fan Diameter (in.)	22	22	22	22
CONDENSER FAN AND MOTOR				
Qty / Motor Drive Type	2 / Direct	2 / Direct	1 / Direct	3 / Direct
Motor hp / rpm	1/4 / 1100	1/4 / 1100	1 / Multiple Speeds[b]	1/4 / 1100
Fan Diameter (in.)	22	22	30	22
FILTERS				
RA Filter Qty / Size (in.)	4 / 20 x 20 x 2	4 / 20 x 20 x 2	4 / 20 x 20 x 2	6 / 18 x 24 x 2
OA Inlet Screen Qty / Size (in.)	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1	Vertical: 2 / 24 x 27 x 1 Horizontal: 1 / 30 x 39 x 1

NOTE(S):

a. Base unit operating weight does not include weight of options.
b. 1050/770/450/350/265 rpm

LEGEND

bhp — Brake Horsepower
FPI — Fins Per Inch
OA — Outdoor Air
RA — Return Air

Product Data

WeatherMaker®
Single Package Heat Pump
Rooftop

3 to 6 Nominal Tons

ecoblue™ technology

Puron ADVANCE™

50FEQ*04, 05, 06, 07
Single-Packaged Heat Pump with Accessory Electric Heat and Puron Advance™ Refrigerant (R-454B)

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Form 50FEQ-4-7-01PD Rev A

Features/Benefits

Introducing Carrier's WeatherMaker® packaged heat pump rooftop units (RTU) with Puron Advance™ and EcoBlue™ Technology.

New major design features include:

- Puron Advance (R-454B) refrigerant, which delivers a 75% reduction in global warming potential (GWP) compared to the original Puron (R-410A). Puron Advance's GWP of 466 easily exceeds the EPA (Environmental Protection Agency) requirement of <700 GWP.
- A patented, industry-first efficient indoor fan system using vane axial fan with electronically commutated variable speed motor for simplicity and efficiency
- Reliable single (04-06 size) or 2-stage (07 size) cooling designers with fully active evaporator coils
- Unit control board (UCB) with intuitive indoor fan adjustment that uses simple dial and switch configuration
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge and weight versus prior designs
- New outdoor fan system with rugged, lightweight, high impact composite fan blade

Our WeatherMaker 50FEQ 3 to 6 ton units are specifically designed to fit on Carrier roof curbs installed as far back as 1989. That makes replacement fast and easy, eliminating the need for curb adapters or different utility connections.

The 3-5 ton units deliver efficiencies of up to 13.4 SEER2 and 6.7 HSPF2. Two-stage, 6 ton units deliver up to 15.0 IEER and a COP up to 3.4. All models are field convertible and capable of either vertical or horizontal airflow.

With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Our precisely sized suction line accumulator helps ensure reliable operation at unit operation conditions.

Value-added features include:

- Single point electrical connections
- Optional fully integrated SystemVu™ controls
- Fixed refrigerant metering devices on 3 to 5 ton models and TXV on 6 ton models
- Scroll compressors with internal line-break overload protection
- Easy-to-access tool-less filter door, filter tracks that tilt out for filter removal and replacement, and filter size consistency across units

Easy to install

All 3 to 6 ton WeatherMaker units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. Our units are light, making them easy to replace, and our standard integrated unit control board (UCB) has simple, fast, clearly labeled plug-in connection points that reduce installation time. Should a job need additional features, our large control box provides room to work and mount Carrier accessories.

Easy to maintain

With the EcoBlue vane axial fan system and direct drive ECM motor, belts or pulleys are a thing of the past. Should an adjustment be necessary, it can easily be made via the UCB in the control box. For regular service activities, our easy-access handles provide a quick solution to all commonly accessed service panels, and our sloped, corrosion-resistant composite drain pan sheds water and will not rust. Service gauge connections are included on compressor suction/discharge lines and before and after the filter drier to monitor system operation during maintenance.

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Features/Benefits (cont)

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In 2018, Carrier announced Puron Advance (R-454B) as our next generation refrigerant for light commercial rooftops. With a GWP of 466 and similar working pressure and performance to R-410A, Puron Advance easily exceeds the EPA's new, stringent <700 GWP refrigerant requirement while minimizing unit redesign. Like other next generation refrigerants (R-32, etc.), R-454B is classified as an "A2L" refrigerant by ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers). This designation means that R-454B is "mildly flammable" under certain conditions. While this is a change from legacy "A1 — No Flame Propagation" refrigerants like Puron (R-410A), A2Ls are still very low on the flammability scale and quite safe for use. A2L refrigerants are difficult to ignite and have an extremely low flame speed — much less so than natural gas, propane, or even rubbing alcohol. At Carrier, we are committed to safety. As such, all of our Puron Advance rooftop units include a factory-installed dissipation control board and leak sensor designed to last the lifetime of the unit. This system is certified to UL 60335-2-40 and designed to work right away, without any field configuration or wiring. In the event of a leak, these systems are designed to automatically identify and resolve the issue by dissipating the refrigerant to minimize risk to equipment, buildings, or occupants.

EcoBlue™ Technology

Our direct drive EcoBlue indoor fan system uses a vane axial fan and electronically commutated motor. The benefit is clear: when compared to legacy belt drive systems, this vane axial design has 75% fewer moving parts, uses up to 40% less energy, and has no belts, blower bearings, or shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaker rooftops into existing building automation systems easy. The units are compatible with conventional thermostat controls, SystemVu controls, and third-party building management systems (BMS).

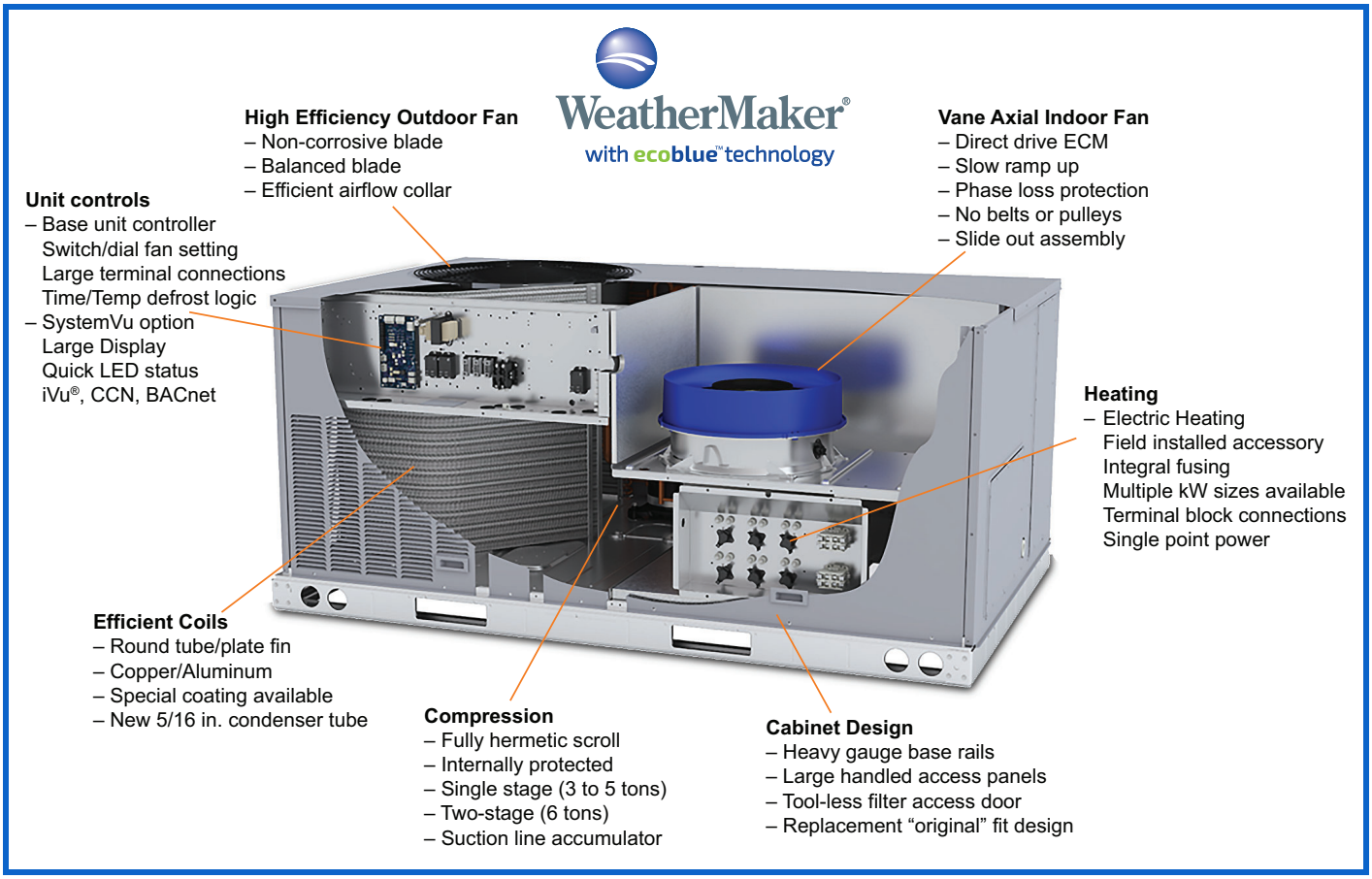
Operating efficiency and flexibility

The 50FEQ rooftops meet ASHRAE 90.1 and IECC®[1] (International Energy Conservation Code) minimum efficiency requirements.

Comfort control

Carrier's round tube plate fin coil design helps maximize heat transfer and reliable operation.

1. Third-party trademarks and logos are property of their respective owners.



Model number nomenclature

50FEQ Model Number Nomenclature

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Example:	5	0	F	E	Q	A	0	4	A	2	A	6	-	0	A	0	A	0

Unit Type
50 – Cooling with Electric Heat

Model Series
FE – Entry Tier Puron® Advance Rooftop

Heat Size
Q = Heat Pump

Refrig. Systems Options
A = One Stage Cooling (04-06)
M = Two Stage Cooling, Single Circuit (07)

Cooling Tons
04 = 3 tons
05 = 4 tons
06 = 5 tons
07 = 6 tons

Sensor Options
A = None
B = Return Air Smoke Detector (RA)
C = Supply Air Smoke Detector (SA)
D = RA + SA Smoke Detector
J = Condensate Overflow Switch (COFS)
K = Condensate Overflow Switch + RA Smoke Detector
L = Condensate Overflow Switch + RA and SA Smoke Detectors
M = Condensate Overflow Switch + SA Smoke Detector

Fan Options
2 = Standard/Medium Static – EcoBlue Vane Axial Fan
3 = High Static – EcoBlue Vane Axial Fan
5 = Standard/Medium Static – EcoBlue Vane Axial Fan and Filter Status Switch
6 = High Static – EcoBlue Vane Axial Fan and Filter Status Switch

RTPF Coil Options – (Outdoor - Indoor — Hail Guard)
A = Al/Cu - Al/Cu
B = Precoat Al/Cu - Al/Cu
C = E-coat Al/Cu - Al/Cu
D = E-coat Al/Cu - E-coat Al/Cu
M = Al/Cu - Al/Cu — Louvered Hail Guard
N = Precoat Al/Cu - Al/Cu — Louvered Hail Guard
P = E-coat Al/Cu - Al/Cu — Louvered Hail Guard
Q = E-coat Al/Cu - E-coat Al/Cu — Louvered Hail Guard
R = Cu/Cu - Al/Cu — Louvered Hail Guard
S = Cu/Cu - Cu/Cu — Louvered Hail Guard

Voltage
1 = 575-3-60
3 = 208/230-1-60[a, b]
5 = 208/230-3-60
6 = 460-3-60

Base Unit Controls
0 = Standard Electromechanical Controls (can be used with field installed economizers and dampers)
3 = SystemVu™ Controller
8 = Electro-mechanical Controls with POL224 (includes FDD[d])

Intake / Exhaust Options
A = None
B = Standard Leak Economizer with Barometric Relief
F = Standard Leak Enthalpy Economizer with Barometric Relief
L = ULL (Ultra Low Leak) Temperature Economizer with Barometric Relief and CO_2 Sensor
M = ULL Enthalpy Economizer with Barometric Relief and CO_2 Sensor
U = ULL Temperature Economizer with Barometric Relief
W = ULL Enthalpy Economizer with Barometric Relief

Service Options
0 = None
1 = Unpowered Convenience Outlet (NPCO)
2 = Powered Convenience Outlet (PCO)
3 = Hinged Panels (HP)
4 = Hinged Panels + NPCO
5 = Hinged Panels + PCO
6 = 4-Inch MERV-13 Filters (M13)
7 = NPCO + MERV-13 Filters
8 = PCO + MERV-13 Filters
9 = Hinged Panels + MERV-13 Filters
A = HP + NPCO + MERV-13 Filters
B = HP + PCO + MERV-13 Filters

Electrical Options
A = None
C = Non-Fused Disconnect (NFDC)
D = Thru-the-Base Connections (TTB)
F = NFDC + TTB
N = Phase Monitor Protection (PMR)
Q = PMR + NFDC
R = PMR + TTB
T = PMR + NFDC + TTB
1 = HSCCR[c] (High Short Circuit Current Rating)
2 = HSCCR[c] + TTB

Packaging
0 = Standard

Design Revision
- = Factory Design Revision

NOTE(S):
[a] Not available for size 07 units
[b] On single phase models (-3 Voltage code), the following are not available as factory installed options:
Louvered Hail Guards, Coated or Copper Fin Coils, Powered Convenience Outlet, Economizer, Upgraded MERV filters
[c] Not available on the following models/options:
575-v, Phase Loss Monitor, Non-Fused Disconnect, Powered Convenience Outlet.
[d] Fault Detection and Diagnostic

Capacity ratings

50FEQ 04-07 AHRI Ratings — Cooling Mode[a,b,c,d]

UNIT	COOLING STAGES	NOMINAL CAPACITY (tons)	NET COOLING CAPACITY 2 (MBtuh)	NET COOLING CAPACITY (MBtuh)	TOTAL POWER 2 (kW)	TOTAL POWER (kW)	SEER2	EER2	IEER w/ 2 SPEED	EER	RATED INDOOR AIRFLOW (cfm)
50FEQA04	1	3	35.0	—	3.0	—	13.4	11.5	—	—	1275
50FEQA05	1	4	48.0	—	4.2	—	13.4	11.5	—	—	1600
50FEQA06	1	5	59.5	—	5.2	—	13.4	11.5	—	—	2000
50FEQM07	2	6	—	70.0	—	6.3	—	—	15.0	11.2	2500

NOTE(S):

a. Rated in accordance with AHRI Standards 210/240 (04-06 size) and 340/360 (07 size).
b. Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
c. Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum SEER2 and EER2 requirements.
d. 50FEQ units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

LEGEND

AHRI — Air Conditioning, Heating and Refrigeration Institute
EER — Energy Efficiency Ratio
MBtuh — Btuh in Thousands
SEER — Seasonal Energy Efficiency Ratio

Capacity ratings (cont)

50FEQ 04-07 AHRI Ratings — Heating Mode[a,b,c,d]

UNIT	HSPF 2	HIGH HEATING CAPACITY 2 (MBtuh)	HIGH HEATING CAPACITY (MBtuh)	HIGH HEAT COP2	HIGH HEAT COP	LOW HEATING CAPACITY 2 (MBtuh)	LOW HEATING CAPACITY (MBtuh)	LOW HEAT COP2	LOW HEAT COP	RATED INDOOR AIRFLOW (cfm)
50FEQA04	6.7	34.0	—	3.6	—	18.0	—	2.1	—	1275
50FEQA05	6.7	45.0	—	3.5	—	21.0	—	2.0	—	1600
50FEQA06	6.7	56.0	—	3.7	—	29.0	—	2.2	—	2000
50FEQM07	—	—	63.0	—	3.4	—	34.5	—	2.25	2500

NOTE(S):

a. Rated in accordance with AHRI Standards 210/240 (04-06 size) and 340/360 (07 size).
b. Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
High Temperature Heating Ratings: 47°F (8°C) db, 43°F (6°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.
Low Temperature Heating Ratings: 17°F (–8°C) db, 15°F (–9°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.
c. Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) requirements, as well as DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER and DOE-2023 Energy Standards for minimum SEER2 and EER2 requirements. ASHRAE 90.1 requires M1 ratings on 3-phase models.
d. 50FEQ units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

LEGEND

AHRI — Air Conditioning, Heating and Refrigeration Institute
COP — Coefficient of Performance
HSPF — Heating Seasonal Performance Factor
MBtuh — Btuh in Thousands

Capacity ratings (cont)

Sound Ratings Table[a,b,c]

UNIT	COOLING STAGES	OUTDOOR SOUND (dB) AT 60 Hz								
		A-WEIGHTED	63	125	250	500	1000	2000	4000	8000
50FEQ*04	1	75.4	81.8	81.8	77.0	72.6	69.9	64.6	59.3	55.6
50FEQ*05	1	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
50FEQ*06	1	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
50FEQ*07	2	79.0	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

NOTE(S):

a. Outdoor sound data is measured in accordance with AHRI.
b. Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
c. A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of “average” human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

dB — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

UNIT	COOLING				ELECTRIC HEAT[a]	
	Minimum Airflow (cfm)	Minimum 2-Speed Airflow (low speed)	Minimum 2-Speed Airflow (high speed)	Maximum Airflow (cfm)	Minimum Airflow (cfm)	Maximum Airflow (cfm)
50FEQ*04	900	—	—	1500	900	1500
50FEQ*05	1200	—	—	2000	1200	2000
50FEQ*06	1500	—	—	2500	1500	2500
50FEQ*07	1800	1200	1800	3000	1800	3000

NOTE(S):

a. Electric heat modules are available as field-installed accessories for 50FEQ units.

Physical data

50FEQ Physical Data

50FEQ UNIT	50FEQA04	50FEQA05	50FEQA06	50FEQM07
NOMINAL TONS	3	4	5	6
BASE UNIT OPERATING WT (lb)[a]	467	473	584	589
REFRIGERATION SYSTEM				
No. Circuits/No. Compressors/Type	1 / 1/ Scroll	1 / 1/ Scroll	1 / 1 / Scroll	1 / 1 / 2-Stage Scroll
Puron Advance™ (R-454B) Charge (lb-oz)	8-3	10-3	11-3	12-13
Metering Device	Acutrol	Acutrol	Acutrol	TXV
High-Pressure Trip/Reset (psig)	630/505	630/505	630/505	630/505
Low-Pressure Trip/Reset (psig)	54/117	54/117	54/117	54/117
EVAPORATOR COIL (Indoor)				
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF
Rows/FPI	3/15	3/15	4/15	4/15
Total Face Area (ft^2)	5.5	5.5	7.3	7.3
Condensate Drain Connection Size	3/4 in.	3/4 in.	3/4 in.	3/4 in.
CONDENSER COIL (Outdoor)				
Material	Cu/Al	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF
Rows/FPI	2/18	2/18	2/18	2/18
Total Face Area (ft^2)	14.6	15.9	20.5	20.5
EVAPORATOR FAN AND MOTOR (Indoor)				
Medium Static 1 Phase				
Motor Qty/Drive Type	1/Direct	1/Direct	1/Direct	—
Max Cont Bhp	0.71	1.06	1.44	—
Rpm Range	219-2190	217-2170	239-2390	—
Fan Qty/Type	1/Vane Axial	1/Vane Axial	1/Vane Axial	—
Fan Diameter (in.)	16.6	16.6	16.6	—
High Static 1 Phase				
Motor Qty/Drive Type	1/Direct	1/Direct	1/Direct	—
Max Cont Bhp	1.07	1.53	1.96	—
Rpm Range	249-2490	246-2460	266-2660	—
Fan Qty/Type	1/Vane Axial	1/Vane Axial	1/Vane Axial	—
Fan Diameter (in.)	16.6	16.6	16.6	—
Medium Static 3 Phase				
Motor Qty/Drive Type	1/Direct	1/Direct	1/Direct	1/Direct
Max Cont Bhp	0.71	1.06	1.44	1.76
Rpm Range	219-2190	217-2170	239-2390	253-2530
Fan Qty/Type	1/Vane Axial	1/Vane Axial	1/Vane Axial	1/Vane Axial
Fan Diameter (in.)	16.6	16.6	16.6	16.6
High Static 3 Phase				
Motor Qty/Drive Type	1/Direct	1/Direct	1/Direct	1/Direct
Max Cont Bhp	1.07	1.96	2.43	2.43
Rpm Range	249-2490	266-2660	284-2836	284-2836
Fan Qty/Type	1/Vane Axial	1/Vane Axial	1/Vane Axial	1/Vane Axial
Fan Diameter (in.)	16.6	16.6	16.6	16.6
CONDENSER FAN AND MOTOR (Outdoor)				
Qty / Motor Drive Type	1 / Direct	1 / Direct	1 / Direct	1 / Direct
Motor Hp/Rpm	1/4 / 1100	1/4 / 1100	1/4 / 1100	1/4 / 1100
Fan Diameter (in.)	23	23	23	23
FILTERS				
RA Filter Qty / Size (in.)	2 / 16x25x2	2 / 16x25x2	4 / 16x16x2	4 / 16x16x2
OA Inlet Screen Qty / Size (in.)	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1	1 / 20x24x1

NOTE(S):

a. Base unit operating weight does not include weight of options.

Options and accessories

ITEM	FACTORY-INSTALLED OPTION	FIELD-INSTALLED ACCESSORY
ELECTRIC HEAT		
Electric Resistance Heaters		X
Single Point Kits		X
CABINET		
Thru-the-Base Electrical Connections	X	X
Hinged Access Panels	X	
4 in. Filter Rack (filters not included)		X
MERV-8 Filters		X
MERV-13 Filters, 2 in.		X
MERV-13 Filters, 4 in.	X	
COIL OPTIONS		
Cu/Cu Indoor and/or Outdoor Coils[a,b]	X	
Pre-Coated Outdoor Coils[a]	X	
Premium, E-Coated Indoor and/or Outdoor Coils[a]	X	
CONDENSER PROTECTION		
Condenser Coil Hail Guard (louvered design)[a]	X	X
CONTROLS		
Thermostats, Temperature Sensors, and Subbases		X
SystemVu DDC Communicating Controller	X	
Smoke Detector (supply and/or return air)	X	X
Horn Strobe Annunciator[c]		X
Time Guard II Compressor Delay Control Circuit		X
Phase Monitor[a]	X	X
Condensate Overflow Switch	X	X
Fan/Filter Status Switch		X
ECONOMIZERS AND OUTDOOR AIR DAMPERS		
EconomizerONE for Electromechanical Controls, complies with FDD (Standard and Ultra Low Leak damper models)[a, d]	X	X
Wi-Fi Stick for EconomizerONE (optional)		X
EconoMi$er® 2 for DDC Controls (Standard and Ultra Low Leak air damper models)[a, e]	X	X
Motorized Two-Position Outdoor-Air Damper[a]		X
Manual Outdoor-Air Damper (25% and 50%)		X
Barometric Relief[f]	X	X
Power Exhaust - prop design		X

ITEM	FACTORY-INSTALLED OPTION	FIELD-INSTALLED ACCESSORY
ECONOMIZER SENSORS AND IAQ DEVICES		
Single Dry Bulb Temperature Sensors[g]	X	X
Differential Dry Bulb Temperature Sensors[g]		X
Single Enthalpy Sensors[g]	X	X
Differential Enthalpy Sensors[g]		X
CO_2 Sensor (wall, duct, or unit mounted)[g]	X	X
INDOOR MOTOR AND DRIVE		
Multiple Motor and Drive Packages	X	
Fan Filter Status Switch	X	X
LOW AMBIENT CONTROL		
Winter Start Kit[h,i]		X
Low Ambient Controller to –20°F (–29°C)[h]		X
POWER OPTIONS		
Convenience Outlet (powered)[a]	X	
Convenience Outlet (unpowered)	X	X
Non-Fused Disconnect[j]	X	
High SCCR Protection[k]	X	
ROOF CURBS		
Roof Curb 14 in. (356 mm)		X
Roof Curb 24 in. (610 mm)		X

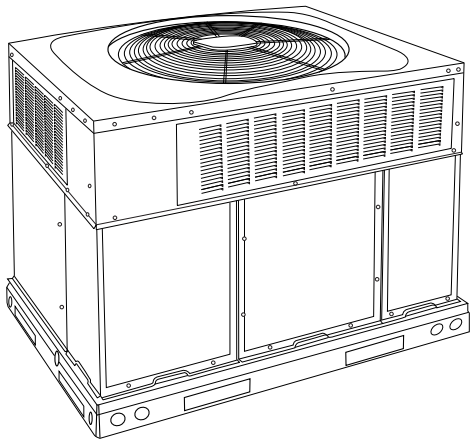
NOTE(S):

a. Not available on single-phase (-3 voltage code) models. Use field-installed accessory where available.
b. Cu/Cu coils are only available with louvered hail guards.
c. Requires a field-supplied 24V transformer for each application. See price pages for details.
d. FDD (Fault Detection and Diagnostic) capability per California Title 24 section 120.2.
e. Models with SystemVu controls comply with California Title 24 Fault Detection and Diagnostic (FDD).
f. Included with economizer.
g. Sensors used to optimize economizer performance.
h. See application data for assistance.
i. Not compatible with SystemVu controller.
j. Non fused disconnect switch (04-07 sizes) cannot be used when unit FLA electrical rating exceeds 80 amps (all voltages).
Carrier RTUBuilder automatically selects the amp limitations.
k. High SCCR (Short Circuit Current Rating) is not available on 575 volt units or units with factory-installed non-fused disconnect, phase loss monitor/protection, powered convenience outlet, or low ambient controls.

50NT-B
Comfort™ 13.4 SEER2 Single-Packaged Heat Pump System with Puron Advance™ (R-454B) Refrigerant Single Phase 2-5 Nominal Tons (Sizes 24-60) Three Phase 3-5 Nominal Tons (Sizes 36-60)

Carrier

Product Data



A09033

Fig. 1 – Unit 50NT-B

Single-Packaged Products with Energy-Saving Features and Puron Advance™ refrigerant.

- 13.4 SEER2
- 11.05 EER2
- 6.7 HSPF2
- ECM Motor-Standard
- Louvers-Standard
- Cabinet air leakage of 2.0% or less at.5 in. W.C. when tested in accordance with ASHRAE standard 193.
- Refrigerant leak detection dissipation system for added safety

Features/Benefits

One-piece Heat Pump unit with optional electric heater, low installation cost, dependable performance and easy maintenance.

Puron Advance is Carrier's latest choice of refrigerant to help meet the 2025 GWP requirement. This unit is designed and tested with Puron Advance and contains a dissipation system.

Easy Installation

Factory-assembled package is a compact, fully self-contained, heat pump unit that is prewired, pre-piped, and pre-charged for minimum installation expense. These units are available in a variety of standard capacity ranges with voltage options to meet residential and light commercial requirements. Units are lightweight and install easily on a rooftop or at ground level. The high tech composite base eliminates rust problems associated with ground level applications.

Durable, dependable components

Scroll Compressors are designed for high efficiency. Each compressor is hermetically sealed against contamination to help promote longer life and dependable operation. Each compressor also has vibration isolation to provide quieter operation. All compressors have internal high pressure and overcurrent protection.

ECM Motor is standard on all models. Direct-drive, PSC (Permanent Split Capacitor) condenser-fan motors are designed to help reduce energy consumption and provide for cooling operation down to 40°F (4.4°C) outdoor temperature. Low ambient kit is available as a field installed accessory.

Innovative Unit Base Design

On the inside a high-tech composite material will not rust and incorporates a sloped drain pan which improves drainage and helps inhibit mold, algae and bacterial growth. On the outside metal base rails provide added stability as well as easier handling and rigging.

Thermostat Controls designed to work as a system with Carrier's small packaged product.

Refrigerant system is designed to provide dependability. Liquid filter driers are used to promote clean, unrestricted operation. Each unit leaves the factory with non-ozone depleting and low global warming potential Puron Advance (R-454B) refrigerant charge. Refrigerant service connections make checking operating pressures easier. Factory-installed leak detection dissipation system for added safety

High and Low Pressure Switches provide added reliability for the compressor.

Indoor and Outdoor coils are computer-designed for optimum heat transfer and efficiency. The indoor coil is aluminum indoor coil and is located inside the unit for protection against damage. The outdoor coil is internally mounted on the top tier of the unit.

Low sound ratings ensure a quiet indoor and outdoor environment with sound ratings as low as 70.0 dBA.

Easy to service cabinets provide easy 3 panel accessibility to serviceable components during maintenance and installation. The base with integrated drain pan provides easy ground level installation with mounting pad. A nesting feature ensures a positive basepan to roof curb seal when the unit is roof mounted. A convenient 3/4-in. wide perimeter flange makes frame mounting on a rooftop easy.

Convertible duct configuration

Unit is designed for use in either downflow or horizontal applications. Each unit is converted from horizontal to downflow with the two standard duct covers. Downflow operation is easily provided in the field to allow vertical ductwork connections. The basepan utilizes seals on the bottom openings to ensure a positive seal in the vertical airflow mode.

Cabinets are constructed of heavyduty, phosphated, zinc-coated prepainted steel capable of withstanding 500 hours in salt spray. Interior surfaces of the evaporator and electric heater compartments are insulated with cleanable semi-rigid insulation board, which keeps the conditioned air from being affected by the outdoor ambient temperature and provides improved indoor air quality. (Conforms to American Society of Heating, Refrigeration and Air Conditioning Engineers No. 62P.) The sloped drain pan minimizes standing water in the drain. An external drain is provided.

Short-Cycling protection for the compressor is incorporated into our defrost control board ensuring a five minute delay (+/-2 minutes) before restarting compressor after shutdown for any reason.

Limited Warranty*

• Default 5 year parts limited warranty

-10 year parts limited warranty with timely registration. Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.

* Applies to original purchaser/homeowner and 5 years to subsequent owners.

• Default 5-year on compressor limited warranty

-10-year on compressor limited warranty with timely registration. Equipment must be registered within 90 days of original installation, except in jurisdictions where warranty benefits cannot be conditioned on registration.

* Applies to original purchaser/homeowner and 5 years to subsequent owners. See warranty certificate for complete details and restrictions

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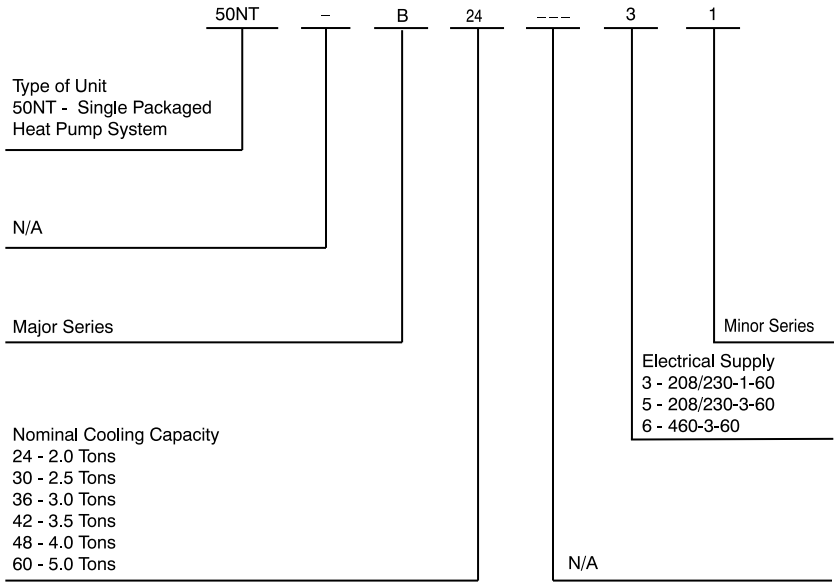
Model Number Nomenclature



Intertek

AHRI CERTIFIED www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.

ASHRAE 90.1 COMPLIANT

SAP ORDERING NO.	NOMINAL COOLING CAPACITY (Btuh)	VOLTS-PHASE (60 HZ)	APPROX SHIP WT (LB)
50NT-B24---3	24,000	208/230-1	349
50NT-B30---3	30,000	208/230-1	384
50NT-B36---3	36,000	208/230-1	423
50NT-B36---5	36,000	208/230-3	423
50NT-B36---6	36,000	460-3	423
50NT-B42---3	42,000	208/230-1	444
50NT-B42---5	42,000	208/230-3	444
50NT-B42---6	42,000	460-3	444
50NT-B48---3	48,000	208/230-1	426
50NT-B48---5	48,000	208/230-3	426
50NT-B48---6	48,000	460-3	426
50NT-B60---3	60,000	208/230-1	475
50NT-B60---5	60,000	208/230-3	475
50NT-B60---6	60,000	460-3	475

AHRI* Capacities

Cooling Capacities and Efficiencies

UNIT SIZE	NOMINAL TONS	STANDARD CFM	COOLING CAPACITY (BTUH)†	EER2‡	SEER2**
24	2	750	22200	11.05	13.4
30	2.5	950	28600	11.05	13.4
36	3	1150	33800	11.05	13.4
42	3.5	1350	42000	11.05	13.4
48	4	1600	47000	11.05	13.4
60	5	1750	55000	11.05	13.4

Heat Pump Heating Capacities and Efficiencies

UNIT SIZE	HEATING CAPACITY (BTUH) @ 47°F (8.3°C)	COP @ 47°F (8.3°C)	HEATING CAPACITY (BTUH) @ 17°F (-8.3°C)	COP @ 17°F (-8.3°C)	HSPF2
24	24000	3.8	12400	2.2	6.7
30	27800	3.0	15800	2.1	6.7
36	35600	3.8	19900	2.4	6.7
42	41500	3.7	23400	2.3	6.7
48	45500	3.7	24800	2.26	6.7
60	57500	3.4	31000	2.3	6.7

LEGEND
dB-Sound Levels (decibels)
db—Dry Bulb
SEER2—Seasonal Energy Efficiency Ratio
wb—Wet Bulb
COP-Coefficient of Performance
HSPF2-Heating Season Performance Factor
* Air Conditioning, Heating & Refrigeration Institute.
**At “A” conditions-80°F (26.7°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor db.
†Rated in accordance with U.S. Government DOE Department of Energy) test procedures and/or AHRI Standards 210/240.
Notes:
1. Ratings are net values, reflecting the effects of circulating fan heat.
Ratings are based on:
Cooling Standard: 80°F (26.7°C) db, 67°F (19.4°C) wb indoor entering-air temperature and 95°F (35°C) db outdoor entering-air temperature.
2. Before purchasing this appliance, read important energy cost and efficiency information available from your retailer.

A-Weighted Sound Power Level (dBA)

UNIT SIZE	STANDARD RATING (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
24	70	55	59	65	66	61	57	49
30	72	57	62	68	68	63	57	49
36	71	63	59	65	67	61	57	50
42	74	58	63	69	69	64	62	55
48	75	59	64	69	70	67	63	56
60	72	60	63	66	67	64	61	55

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

Physical Data

	24	30	36	42	48	60
Unit Size	2	2.5	3	3.5	4	5
Shipping Weight* (lb) (kg)	349 159	384 174	423 192	444 201	426 193	475 215
Compressor Quantity	1					
Type	Scroll					
Refrigerant	R-454B					
Refrigerant Quantity (lb) Quantity (kg)	7.50 3.4	8.25 3.7	9.50 4.3	9.00 4.1	9.75 4.4	11.0 5.0
Refrigerant Metering Device	Indoor TXV, Outdoor Dual Accuraters					
Minimum Conditioned Space Area (sq. ft.)	122	137	152	137	152	167
Orifice ID (in) (mm)	N/A					
Orifice OD (in) (mm)	0.032 (2) 0.81 (2)	0.035 (2) 0.89 (2)	0.040 (2) 1.02 (2)	0.042 (2) 1.07 (2)	0.046 (2) 1.17 (2)	0.046 (2) 1.17 (2)
Outdoor Coil Rows...Fins/in, face area (sq. ft.)	 1...21 18.8	 2...21 18.8	 1...21 23.3	 1...21 23.3	 2...21 13.6	 2...21 17.5
Outdoor Fan Nominal Airflow (cfm) Diameter (in.) Diameter (mm) Motor hp (rpm)	 3000 24 610 1/10 (810)	 3200 24 610 1/5 (810)	 3500 26 660 1/5 (810)	 3500 26 660 1/5 (810)	 3000 26 660 1/5 (810)	 3500 26 660 1/5 (810)
Indoor Coil Rows...Fins/in, face area (sq. ft.)	 3...15 3.7	 3...17 3.7	 3...17 4.7	 3...17 4.7	 3...17 5.6	 3...17 5.6
Indoor Blower Required Minimum Dissipation Airflow (cfm) Nominal Airflow (cfm) Size in. (D x W) Size mm (D x W) Motor hp (rpm)	 213 750 10 x 10 254 x 254 1/2	 239 950 10 x 10 254 x 254 1/2	 266 1150 11 x 10 279 x 254 1/2	 239 1350 11 x 10 279 x 254 3/4	 266 1600 11 x 10 279 x 254 1	 293 1750 11 x 10 279 x 254 1
High Pressure Switch (psig) Cutout Reset (Auto)	650 +/- 15 420 +/- 25					
Loss-of-Charge/Low Pressure Switch (psig) Cutout Reset (Auto)	20 +/- 5 45 +/- 10					
Return Air Filters disposable†	2 each 20x12x1 in. 508x305x25 mm		1 each 24x14x1in. 610x356x25 mm 24x16x1 in. 610x406x25 mm		1 each 24x16x1 in. 610x406x25 mm 24x18x1 in. 610x457x25 mm	

*. For 460 volt units, add 14 lb (6.4 kg) to the weight.

†. Required filter sizes shown are based on the larger of the AHRI (Air Conditioning Heating and Refrigeration Institute) rated cooling airflow or the heating airflow velocity of 300-350 ft/minute for throwaway type or 450 ft/minute for high-capacity type. Air filter pressure drop for non-standard filters must not exceed 0.08 IN. W.C.
If using accessory filter rack refer to the filter rack installation instructions for correct filter size and quantity.

Residential & Light Commercial Heat Pump System

Indoor Model: RAV-HB241KRTP-UL (High Wall)
Outdoor Model: RAV-BP241AT2P-UL

TOSHIBA
Carrier

Submittal Data

Job Name _____ Location _____

Tag _____

OUTDOOR UNIT STANDARD FEATURES

- Digital inverter compressor technology
- System can operate in cooling only mode with heating locked out
- Line lengths up to 164 ft
- Low-ambient cooling down to 5°F
- System diagnostics

OUTDOOR UNIT MODEL		RAV-BP241AT2P-UL
SYSTEM PERFORMANCE		
Nominal Cooling Capacity†	Btu/h	24,000
SEER2		22.7
EER2		11.8
Nominal Heating Capacity†	Btu/h	27,000
HSPF2		10.4
COP		2.1
REFRIGERANT LINES		
Total Piping Length	ft	164
Vertical Lift	ft	98
Suction Line Size	in	5/8
Liquid Line Size	in	3/8
AMBIENT OPERATING RANGE		
Cooling DB Min ~ Max	F	5~115
Heating DB Min ~ Max	F	-13~59
REFRIGERANT		R454B
FACTORY CHARGE	lbs	4.63

AIRFLOW		
Cooling	CFM	2300
Heating	CFM	2220
SOUND PRESSURE LEVEL		
Cooling	db(A)	52
Heating	db(A)	54
ELECTRICAL		
Power Supply	V/Ph/Hz	208-230/1/60
Minimum Circuit Amps (MCA)	A	17
Recommended Fuse Size	A	20
Maximum Over Current Protection (MOCP)	A	25
PHYSICAL DATA		
Unit Width	in	35-3/8
Unit Height	in	35
Unit Length	in	12-5/8
Unit Weight	lbs	132.2

Legend

db — Dry Bulb
SEER — Seasonal Energy Efficiency Ratio
HSFP — Heating Seasonal Performance Factor
wb — Wet Bulb

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 210/240 Standard.
Cooling: Indoor 80°F (27°C) db/67°F (20°C) wb; Outdoor 95°F (35°C) db
Heating: Indoor 70°F (21°C) db; Outdoor 47°F (8°C) db/43°F (6°C) wb

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Edition Date: 10/25
Printed in U.S.A.
Form No: RAV-HB241KRTP-UL-02SD
Replaces: RAV-HB241KRTP-UL-01

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

RAV-HB241KRTP-UL HIGH WALL FEATURES

- R-454B refrigerant
- Five sizes from 12,000 to 36,000 Btu/h
- Quiet operation (as low as 35 dBA)
- Auto or manually set three fan speeds
- Easy to remove cleanable filter

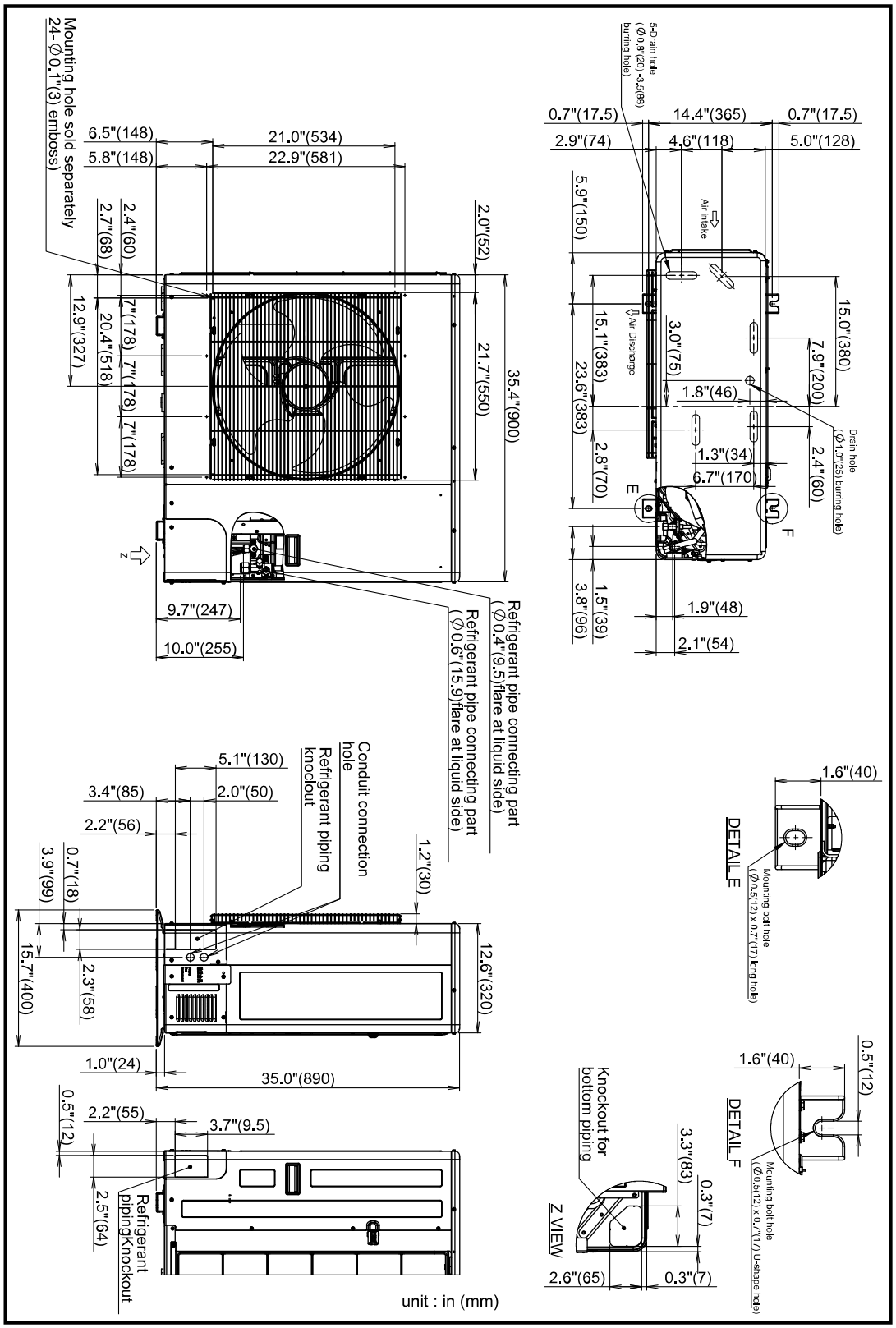
INDOOR UNIT MODEL		RAV-HB241KRTP-UL
PERFORMANCE		
Cooling Rated Capacity	Btu/h	24,000
Heating Rated Capacity	Btu/h	27,000
Fan Type (Qty)		Turbo (1)
Airflow (H/M/L)	CFM	705/530/355
Sound Pressure (H/M/L)	dBA	46/41/35
ELECTRICAL		
Power Supply	V/Ph/Hz	From ODU
FILTER		
Type		Washable
Quantity		2
MERV Corresponding Value		5
Dimensions (W x L x D)	in.	15-3/4 x 16-3/8 x 1/16

PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in	3/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	5/8 (Flare)
Refrigerant		R-410A
External Finish		Munsell 2.5GY9.0/0.5
Unit Width	in	41-3/8
Unit Height	in	12-5/8
Unit Depth	in	9-7/8
Unit Net Weight	lb	33.1
MOTOR		
Motor Type		DC
Motor Watts	W	30

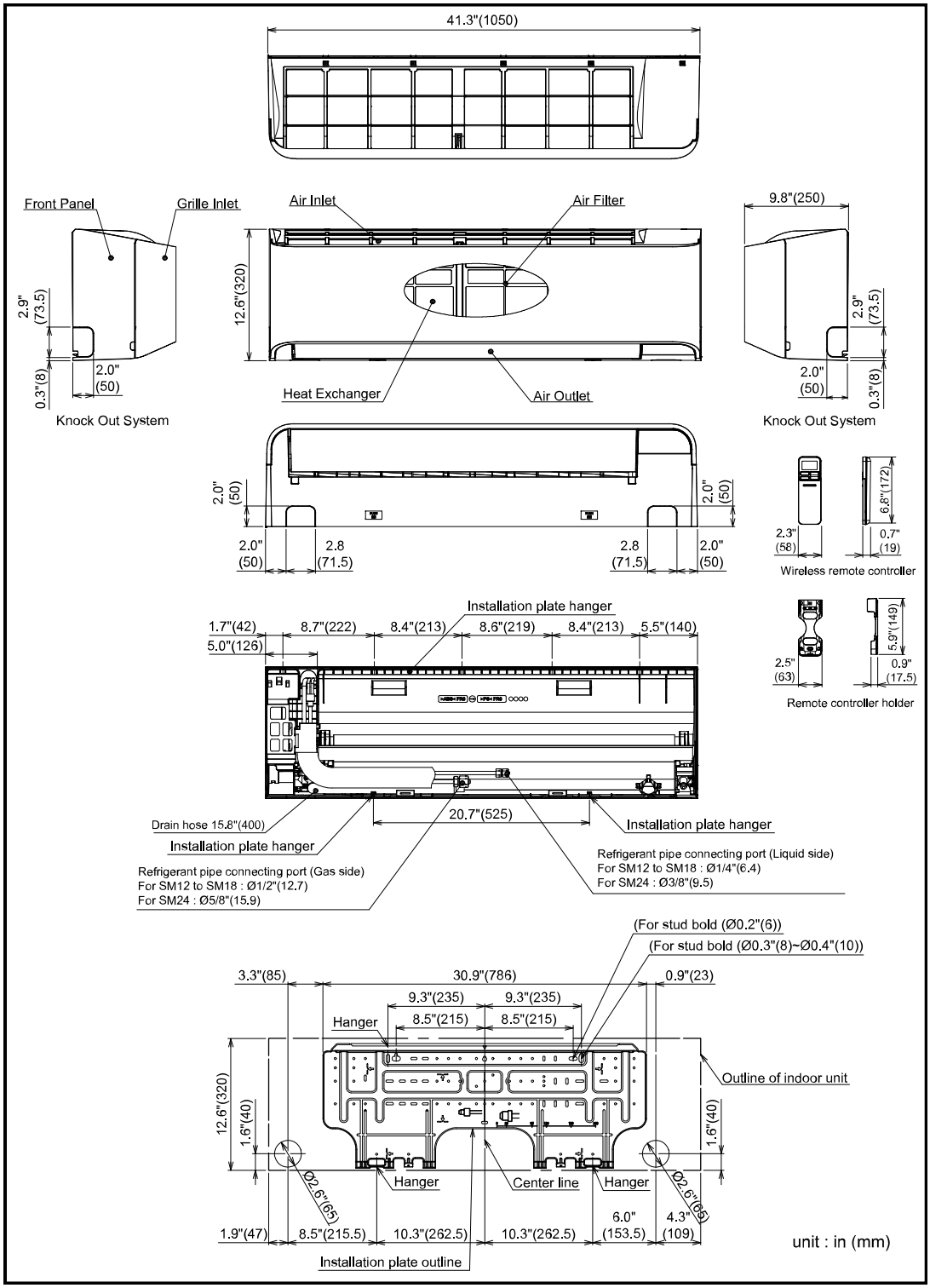
ACCESSORIES

- ☐ Wired Remote Controller (7-Day Programmable) RBC-AWSU52-UL
- ☐ Simple Wired Remote Controller RBC-ASCU11-UL
- ☐ Remote Sensor TCB-TC41U-UL
- ☐ Condensate Drain Pipe Kit 53DS-900---118

DIMENSIONAL DRAWING
OUTDOOR UNIT RAV-BP241AT2P-UL



DIMENSIONAL DRAWING
INDOOR UNIT HIGH WALL RAV-HB241KRTP-UL



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Residential & Light Commercial Heat Pump System

Indoor Model: RAV-HB361KRTP-UL (High Wall)
Outdoor Model: RAV-BP361AT2P-UL

TOSHIBA
Carrier

Submittal Data

Job Name _____ Location _____

Tag _____

RAV-BP361AT2P OUTDOOR UNIT STANDARD FEATURES

- Digital inverter compressor technology
- System can operate in cooling only mode with heating locked out
- Line lengths up to 246 ft
- Low-ambient cooling down to 5°F
- System diagnostics

OUTDOOR UNIT MODEL		RAV-BP361AT2P-UL
SYSTEM PERFORMANCE		
Nominal Cooling Capacity†	Btu/h	36,000
SEER2		22.4
EER2		11.7
Nominal Heating Capacity†	Btu/h	40,000
HSPF2		11.3
COP		2.1
REFRIGERANT LINES		
Total Piping Length	ft	246
Vertical Lift	ft	98
Suction Line Size	in	5/8
Liquid Line Size	in	3/8
AMBIENT OPERATING RANGE		
Cooling DB Min ~ Max	F	5~115
Heating DB Min ~ Max	F	-13~59
REFRIGERANT		R454B
FACTORY CHARGE	lbs	5.84

AIRFLOW		
Cooling	CFM	3570
Heating	CFM	3100
SOUND PRESSURE LEVEL		
Cooling	db(A)	54
Heating	db(A)	54
ELECTRICAL		
Power Supply	V/Ph/Hz	208-230/1/60
Minimum Circuit Amps (MCA)	A	30
Recommended Fuse Size	A	40
Maximum Over Current Protection (MOCP)	A	40
PHYSICAL DATA		
Unit Width	in	35-3/8
Unit Height	in	52-3/4
Unit Length	in	12-5/8
Unit Weight	lbs	218.3

Legend

db — Dry Bulb
SEER — Seasonal Energy Efficiency Ratio
HSFP — Heating Seasonal Performance Factor
wb — Wet Bulb

†Rated per AHRI (Air-Conditioning, Heating and Refrigeration Institute) 210/240 Standard.
Cooling: Indoor 80°F (27°C) db/67°F (20°C) wb; Outdoor 95°F (35°C) db
Heating: Indoor 70°F (21°C) db; Outdoor 47°F (8°C) db/43°F (6°C) wb

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Replaces: RAV-HB361KRTP-UL-01

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

RAV-HB361KRTP-UL HIGH WALL FEATURES

- R-454B refrigerant
- Five sizes from 12,000 to 36,000 Btu/h
- Quiet operation (as low as 43 dBA)
- Auto or manually set three fan speeds
- Easy to remove cleanable filter

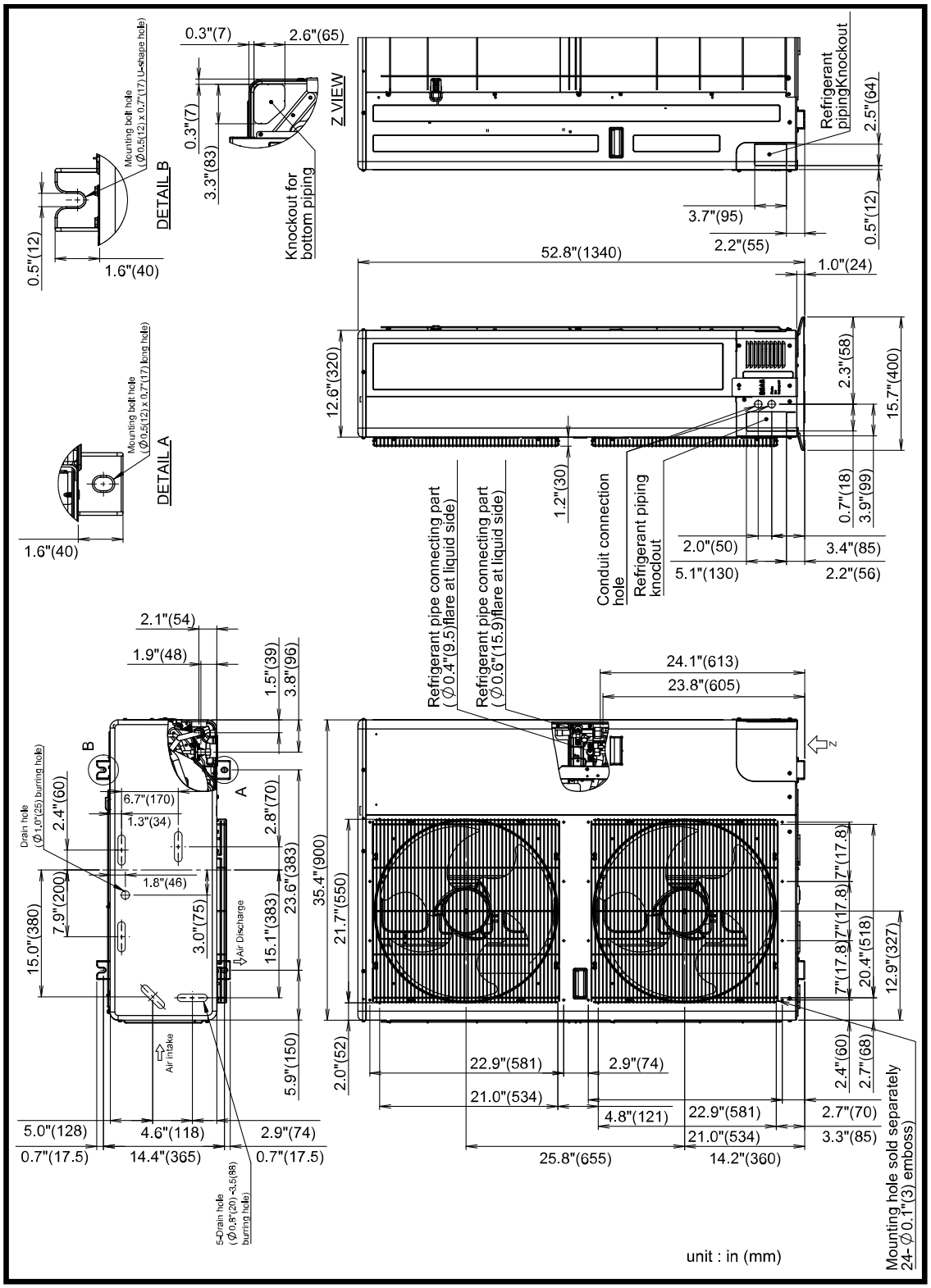
INDOOR UNIT MODEL		RAV-HB361KRTP-UL
PERFORMANCE		
Cooling Rated Capacity	Btu/h	36,000
Heating Rated Capacity	Btu/h	40,000
Fan Type (Qty)		Turbo (1)
Airflow (H/M/L)	CFM	970/910/735
Sound Pressure (H/M/L)	dBA	50/47/43
ELECTRICAL		
Power Supply	V/Ph/Hz	From ODU
FILTER		
Type		Washable
Quantity		2
MERV Corresponding Value		5
Dimensions (W x L x D)	in.	16-1/2 x 19-5/8 x 1/16

PHYSICAL DATA		
Pipe Connection Size - Liquid (High Pressure)	in	3/8 (Flare)
Pipe Connection Size - Gas (Low Pressure)	in	5/8 (Flare)
External Finish		Munsell 2.5GY9.0/0.5
Unit Width	in	47-1/4
Unit Height	in	13-3/4
Unit Depth	in	11.0
Unit Net Weight	lb	44.1
MOTOR		
Motor Type		DC
Motor Watts	W	61

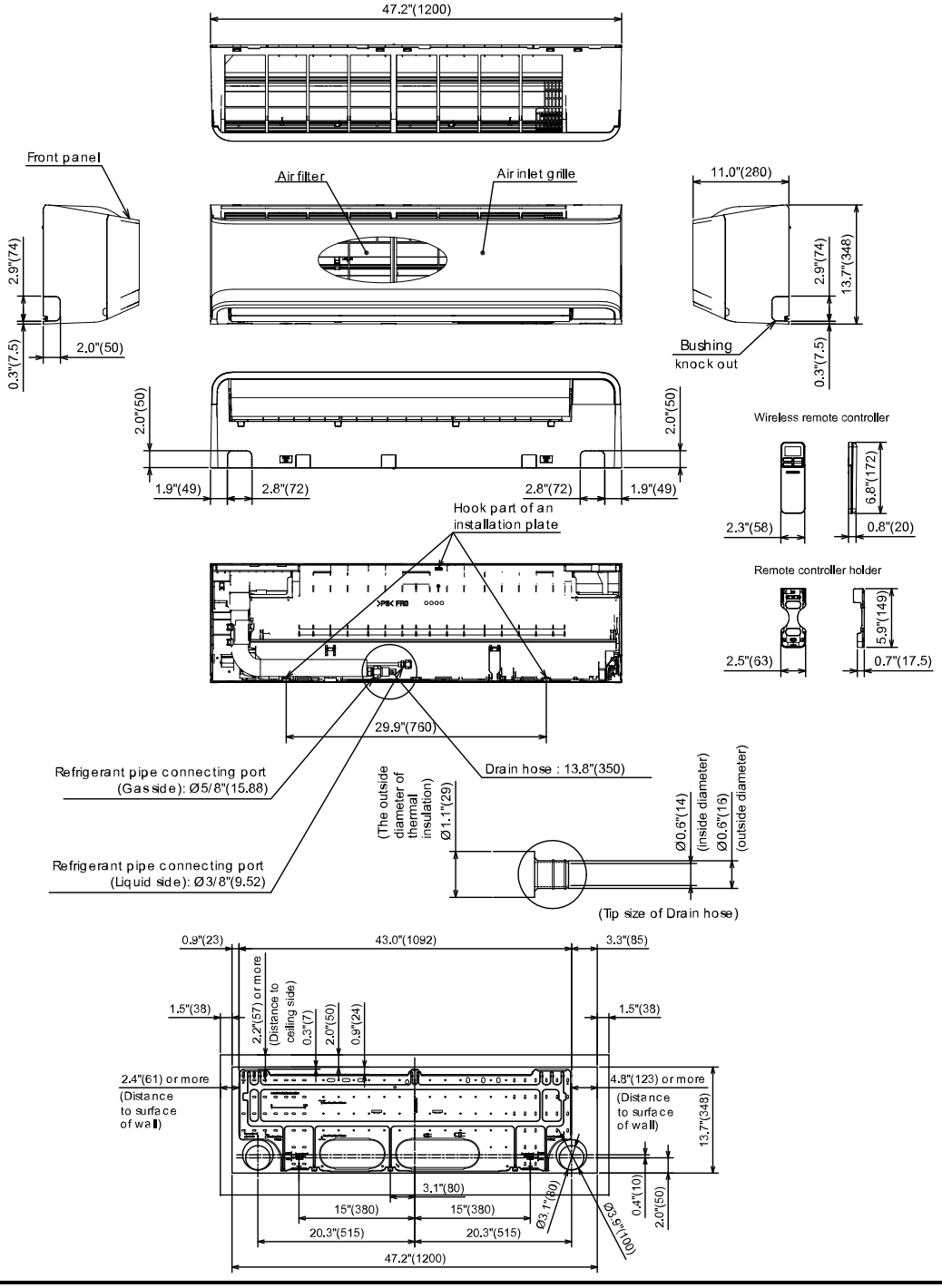
ACCESSORIES

- ☐ Wired Remote Controller (7-Day Programmable) RBC-AWSU52-UL
- ☐ Simple Wired Remote Controller RBC-ASCU11-UL
- ☐ Remote Sensor TCB-TC41U-UL
- ☐ Condensate Drain Pipe Kit 53DS-900---118

DIMENSIONAL DRAWING
OUTDOOR UNIT RAV-BP361AT2P-UL



DIMENSIONAL DRAWING
INDOOR UNIT HIGH WALL RAV-HB361KRTP-UL



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Form No: RAV-HB361KRTP-UL-02SD
Replaces: RAV-HB361KRTP-UL-01

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VRF Controls and Accessories
TCB-IFTH2UUG-UL—24V Thermostat Interface

TOSHIBA Carrier

Submittal Data

Job Name _____ Location _____

Tag _____

A210769

24V Thermostat Interface Features

- Connectable with various 3rd party Thermostat including Carrier COR to VRF (SMMS-e, SHRM-e) and SDI (RAV)
- Provides 3 Fan speed control; - High, - Medium, - Low
- One 24V Thermostat Interface per indoor unit
- Indoor unit modes; - Cooling, - Heating, -Fan, - OFF
- Connection: AB - Remote controller Terminal of indoor units
- Temperature control
  - Auto (Variable capacity)
  - Fixed capacity
- Minimum run time setting
  - 5 minutes
  - 10 minutes

MODEL NAME	TCB-IFTH2UUG-UL	
POWER SUPPLY	DC18V (+0%, -20%) (provided by an indoor unit), AC24V (±10%) (24V Thermostat Interface circuit; provided by field procured transformer)	
Input Power	W	0.5
Operating Current	mA / VDC	40 / 18
Operating Temperature Range	°F / °C	32 to 104 (0 to 40), 10% to 90% RH (no condensation)
Storage temperature range	°F / °C	-4 to 140 (−20 to +60), 10% to 90% RH (no condensation)
DIMENSIONS	Height (in)	1-1/8
	Width (in)	5-1/8
	Depth (in)	2-7/8
NET WEIGHT	lbs	0.25

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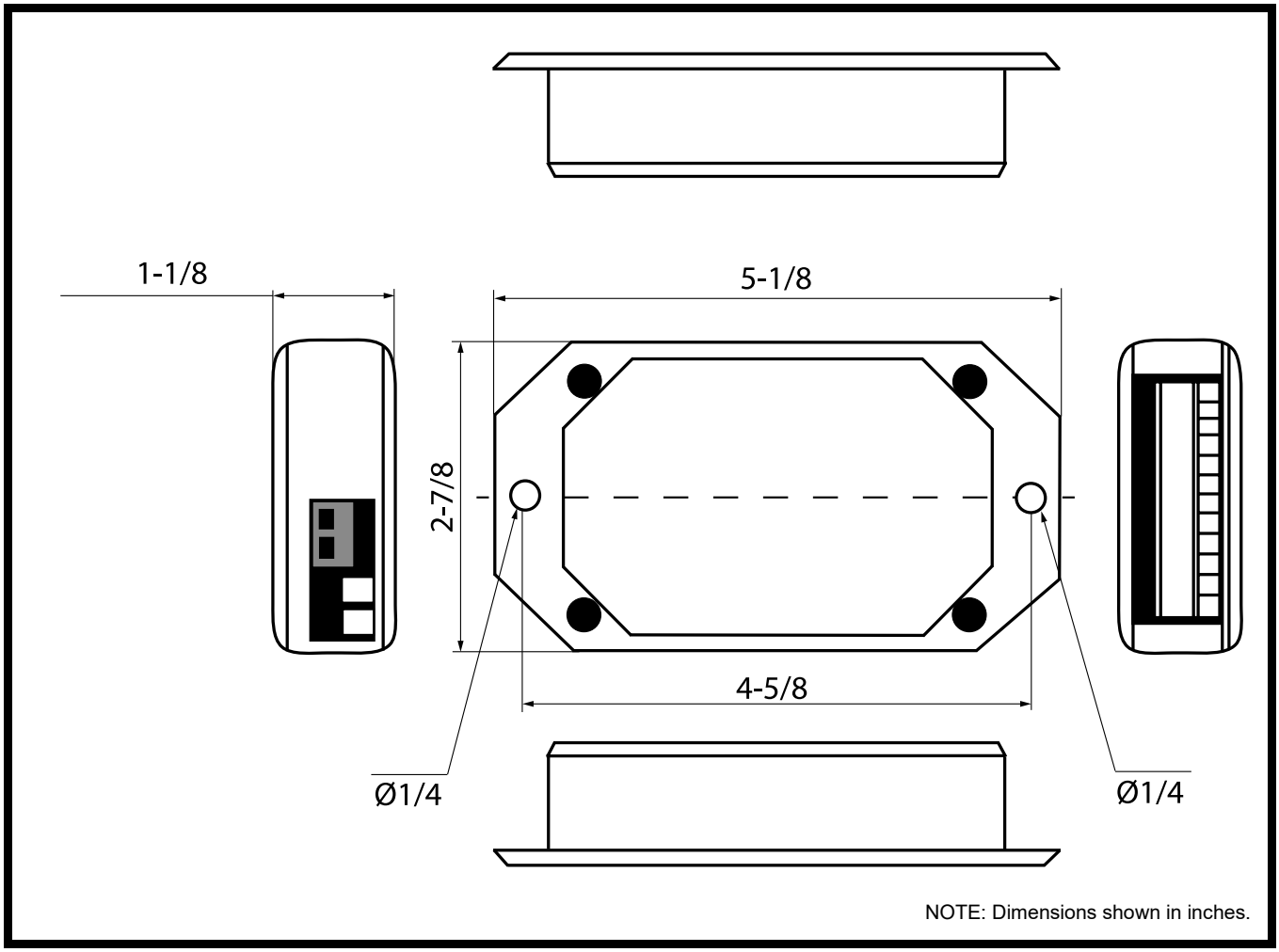
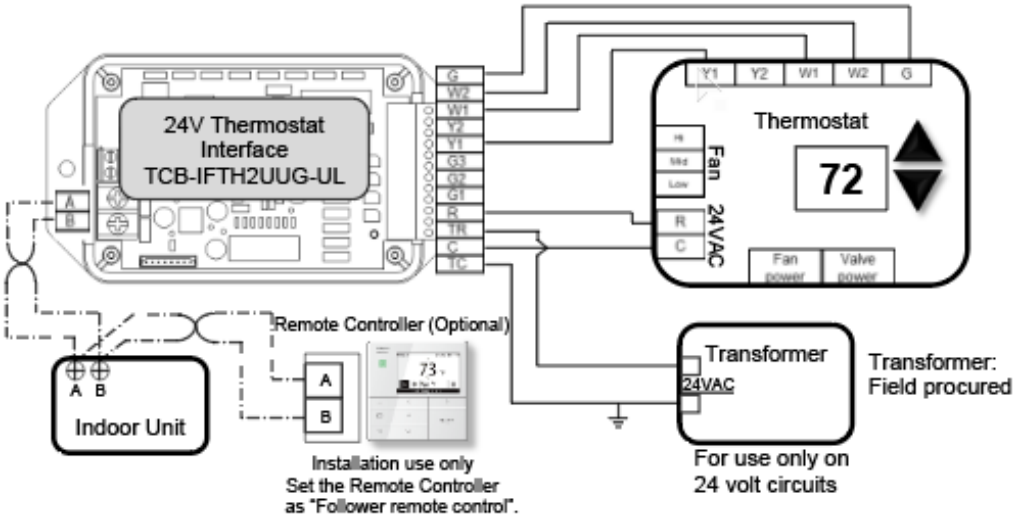
Dimensional Drawing
24V Thermostat Interface TCB-IFTH2UUG-UL



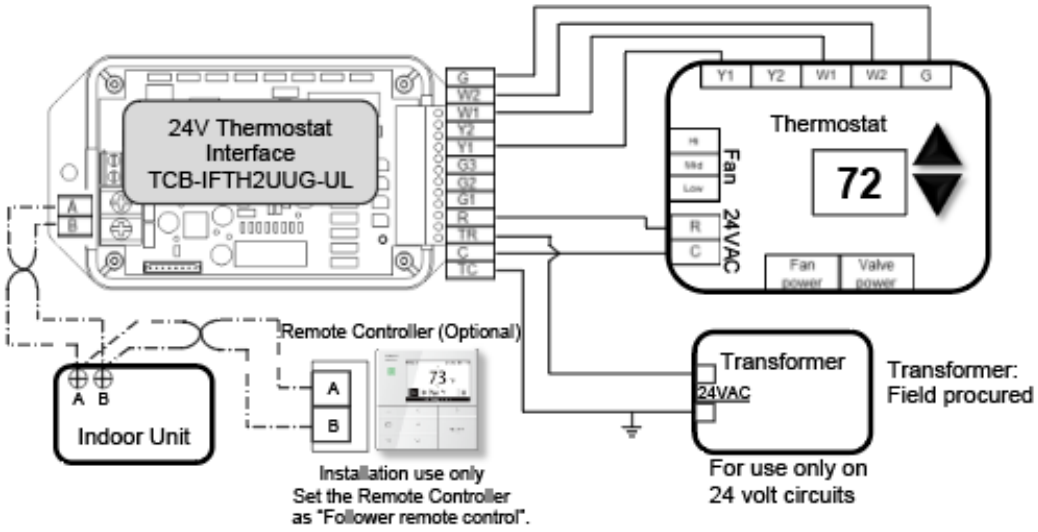
WIRING DIAGRAMS

24V Thermostat Interface TCB-IFTH2UUG-UL

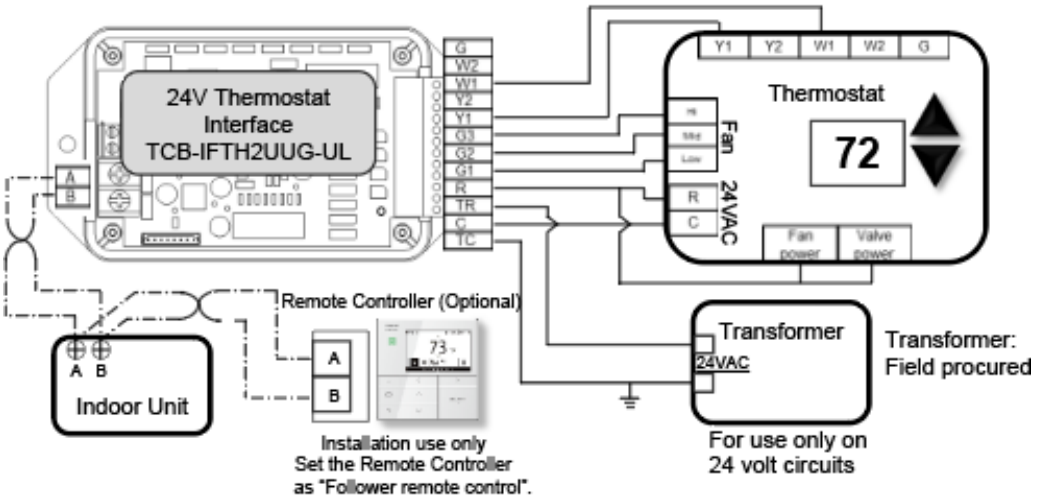
2-Stage Cooling and Heating



Single-Stage Cooling and 2-Stage Heating



Single-Stage Cooling and Heating with Dedicated 3-Fan Speed



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A Carrier Company
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Replaces: New

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Single Zone Heat Pump Ductless System

Outdoor Model: **37MBRAQ36AA3**

Job Data: _____ **Location:** _____

Tag #: _____ **Carrier#:** _____

Date: _____

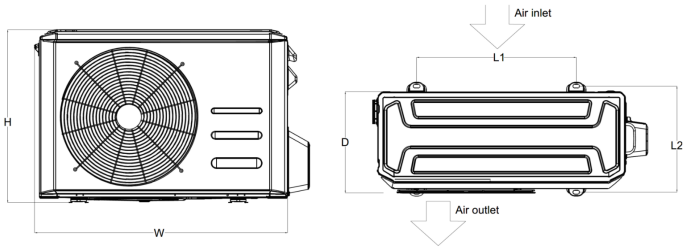
OUTDOOR STANDARD FEATURES

- Variable Speed (Inverter)
- Factory installed Base Pan Heater
- Factory installed Crankcase Heater
- Factory installed Dissipation Sensor on Indoor unit
- Low Voltage Controls
- Auto-Restart function
- Condenser High Temp Protection
- Quiet operation
- Anti-corrosive fin coating

RESIDENTIAL APPLICATION LIMITED WARRANTY*

- Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

NOTE: Images for illustration purposes only. Actual models may be slightly different.



OUTDOOR UNIT DIMENSIONS						
Capacity	Unit	W	D	H	L1	L2
36K	in(mm)	37.24(946)	16.14(410)	31.89(810)	26.49(672.96)	15.80(402.60)

Outdoor - Heat Pump			
System	**Outdoor Model #**		37MBRAQ36AA3
	Outdoor Size		36000
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208-230/1/60
	MCA	A.	33
	MOPA	A.	35
	SCCR	kA	5
Operating Range	Cooling Outdoor DB Min - Max	°F(°C)	-13~122(-25 ~ 50)
	Heating Outdoor DB Min - Max	°F(°C)	-13~75(-25 ~ 24)
Piping	Min. Piping Length	ft (m)	9.8 (3)
	Standard Piping Length	ft. (m)	24.6 (7.5)
	Total Piping Length	ft (m)	246(75)
	Piping Lift*	ft (m)	98.4(30)
	Pipe Connection Size - Liquid	in (mm)	3/8"(9.52)
	Pipe Connection Size - Suction	in (mm)	3/4"(19)
Refrigerant	Refrigerant Type		R454B
	Charge	lbs (kg)	5.73(2.6)
	Add'l Refrigerant (between Std & Max Piping Lengths)	Oz/ft (g/m)	0.32(30)
Outdoor Coil	Face Area	Sq. Ft.	9.85
	No. Rows		2
	Fins per inch		20
	Circuits		8
Compressor	Type		TWIN-ROTARY
	Model		EKPQ420D1UMUA
	Oil Type		ESTER OIL
	Oil Charge	Fl. Oz.	33.82
	Rated Current	RLA	5.4
Airflow & Sound	Airflow	CFM	2414.6
	Sound Pressure	dB(A)	62.5
Dimensions	Height	in (mm)	31.89(810)
	Width	in (mm)	37.24(946)
	Depth	in (mm)	16.14(410)
	Net Weight	lbs (kg)	152.34(69.1)
	Shipping Height	in (mm)	34.84(885)
	Shipping Width	in (mm)	42.91(1090)
	Shipping Depth	in (mm)	19.69(500)
	Shipping Net Weight	lbs (kg)	162.48(73.7)

*** Condensing unit above or below indoor unit**

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AHRI CERTIFIED www.ahridirectory.org
Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

C SP US

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Air Handler Heat Pump Ductless System

Indoor Model: **45MBAAQ36XA3**

Turn to the experts

Job Data: _____ **Location:** _____

Tag #: _____ **Carrier#:** _____

Date: _____

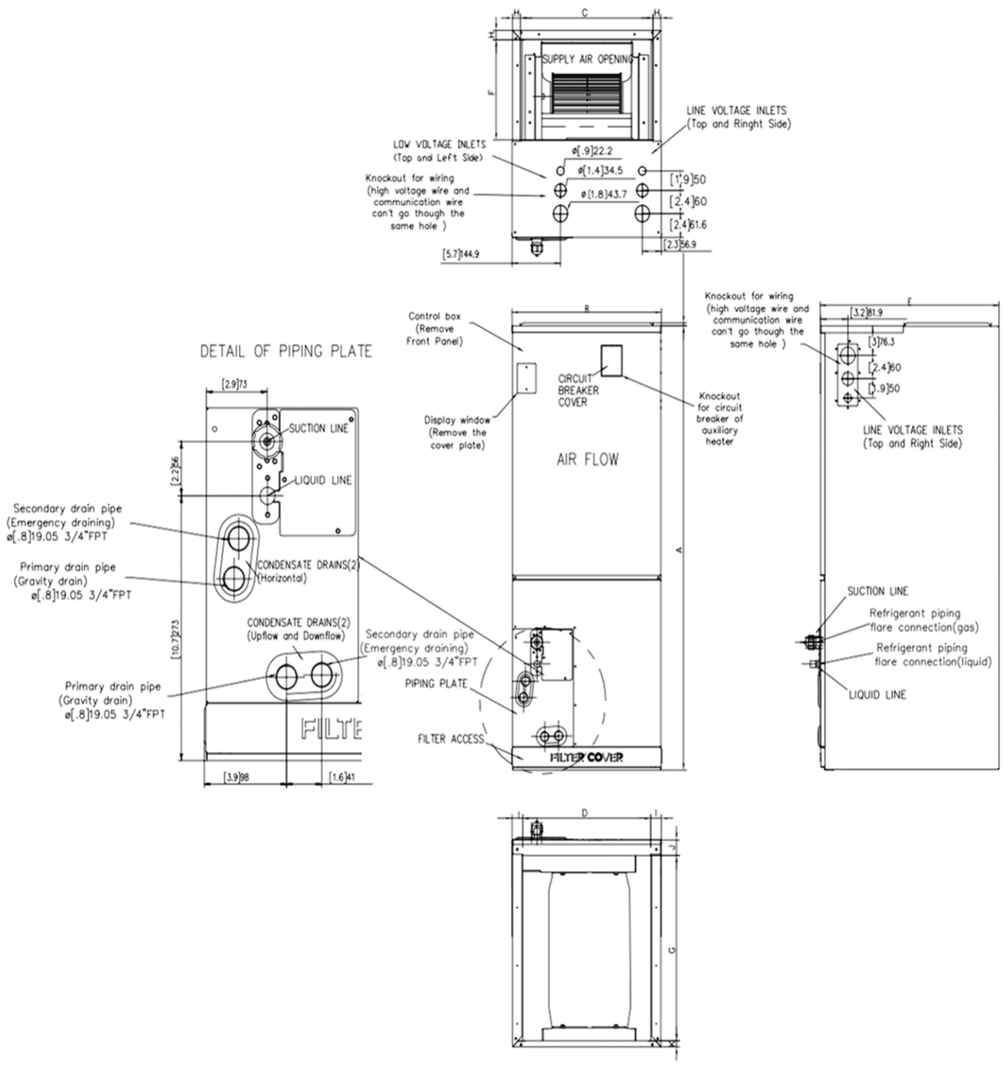
INDOOR STANDARD FEATURES

- Modes: Cool, Heat, Dry, Fan, Auto
- 4-way installation (Up flow, Down flow, Right, Left)
- Auto-Restart function
- Quiet indoor operation
- Aluminum hydrophilic pre-coated fins

RESIDENTIAL APPLICATION LIMITED WARRANTY*

- Ten (10) years if properly registered within ninety (90) days after original installation, parts are warranted to the original purchaser for a period of ten (10) years. Otherwise, parts warranty is five (5) years.

NOTE: Images for illustration purposes only. Actual models may be slightly different.



45MBAAQ36XA3			
System	**Indoor Model #**		45MBAAQ36XA3
	Indoor Size		36000
Electrical	Voltage, Phase, Cycle	V/Ph/Hz	208-230/1/60
	Power Supply	Indoor unit powered by outdoor unit	
	MCA	A.	6
Operating Range	Cooling Indoor DB Min - Max	°F(°C)	60~90(16～32)
	Heating Indoor DB Min - Max	°F(°C)	32~86(0～30)
Indoor Coil	No. Rows		4
	Fins per inch		20
	Circuits		10
Indoor Unit	Number of Fan Speeds		685/620/560
	Airflow (highest to lowest)	CFM	1189.0 / 1083.0 / 971.2 / 865.2 / N\A
	Sound Pressure (highest to lowest)	dB(A)	47/42/30.5
Dimensions	Height	in (mm)	49.02(1245)
	Width	in (mm)	21.02(534)
	Depth	in (mm)	21.02(534)
	Net Weight	lbs (kg)	129.63(58.8)
	Shipping Height	in (mm)	21.20(640)
	Shipping Width	in (mm)	52.17(1325)
	Shipping Depth	in (mm)	24.61(625)
	Shipping Net Weight	lbs (kg)	153.00(69.4)
CONTROLS			
Standard	Wireless Remote Controller (°F/°C Convertible)		
Optional	Wired Remote Control 7 Day Programmable		KSACN1401AAA
	24V Mini Interface		KSAIC0601230

INDOOR UNIT DIMENSIONS

Dimensions		36K		48K/60K	
		Inch	mm	Inch	mm
A	Model Height	49	1245	53	1346
B	Model Width	21	534	24.5	622
C	S.A. Opening Width	19.1	486	22.6	575
D	R.A. Opening Width	18.6	473	22.1	562
E	Model Depth	21	534	21	534
F	S.A. Opening Depth	10.3	260	10.3	260
G	R.A. Opening Depth	18.8	476	18.8	476
H	S.A. Opening Clearance	0.9	24	0.9	24
I	R.A. Opening Side Clearance	1.3	32	1.1	28
J	R.A. Opening Front Clearance	1.6	41	1.6	41
K	R.A. Opening Back Clearance	0.6	16	0.8	19

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Unitary Small HP
AHRI Standard 210/240
Certification applies only when the complete system is listed with AHRI.

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Marvair®
An ACS Brand

WALL MOUNT AIR CONDITIONER PRODUCT DATA SHEET

1.5 to 6 Ton Vertical Self-Contained Packaged Wall Mount Air Conditioners

Models MAH1018A - MAH1060A & MGH1072A (Single Stage Cooling)
MAH2024A - MAH2060A & MGH2072A (2-Stage Cooling)

General Description

Used to cool electronic and communication equipment shelters, modular buildings, classrooms and a variety of commercial/industrial structures, Marvair® wall mount air conditioners are versatile problem solvers for a wide range of conditions and applications. Due to the high internal heat load in applications such as electronic equipment shelters, cooling is required even when outside temperatures drop below 60°F (15°C). Marvair air conditioners have the necessary controls and components for operation during these (less than 60°F [15°C]) temperatures. All models use the non-ozone depleting R-454B refrigerant.

All Marvair wall mount air conditioners are available with an optional factory installed economizer. When ambient conditions are cool and dry, the economizer uses outside air to cool the shelter. The economizer provides temperature control, energy cost savings, and increased reliability by decreasing the operating hours of the compressor and the condenser fan. To insure proper operation and optimum performance, all economizers are non-removable, factory installed and tested. In addition, factory and field installed accessories can be used to meet specific requirements.

➤ High Efficiency Models

Marvair's energy efficient wall mount air conditioners meet or exceed the US Department of Energy 's BTUh efficiency levels of 11 EER for units less than 65,000 BTUh cooling capacity and 10 EER for units larger than 65,000 BTUh. Electronically commutated indoor fan motors combined with highly efficient scroll compressors result in these higher Energy Efficiency Ratios (EER's).

MAH1036AA

AHRI CERTIFIED® www.ahridirectory.org | CE | ETL Intertek | Designed, Engineered & Assembled In the USA

Features and Benefits

Built-In Energy Savings

- *Optional Factory Installed Economizer*
- *Available EER of up to 11.50*

Next Generation R-454B Refrigerant

- *78% Lower GWP than R-410A*
- *Non-Ozone Depleting Refrigerant*
- *Synthetic Lubricant*
- *Integral Mitigation Board and Sensors*

High Efficiency and Reliability

- *High Efficiency Compressor and Lanced Coil Fins*
- *High and Low Pressure Switches*
- *Evaporator Coil Freeze Protection*

Ease of Installation and Service

- *Side Access Panels for Power Connections*
- *Built-In Mounting Flanges and Internal Disconnect*
- *Standard Access Valves and Filters, Status LEDs*

Safety Listed and Energy Certified

All Marvair air conditioners conform to UL/CSA standard 60335-1 and 60335-2-40 and CAN/CSA C22.2, No. 236-11 Ed.4. For energy efficiency and performance, the units are tested and rated in accordance to the ANSI/ARI (Air-Conditioning and Refrigeration Institute) Standard 390- 2003 (Single Package Vertical Units). All units meet or exceed the efficiency requirements of ANSI/ASHRAE/IESNA 90.1-2022. Marvair air conditioners are commercial units and are not intended for use in residential applications.

Standard Features

➤ Designed for Operation in Low Ambient Conditions

- Low ambient control cycles condenser fan to maintain proper refrigerant pressures. Allows operation in mechanical cooling (compressor) of our standard air conditioners down to 0°F (-7°C). Note: low temperature operation is affected by ambient conditions, e.g. wind and humidity.
- Three minute by-pass of the low pressure sensor for start-up of compressor when outdoor temperatures are below 55°F (13°C).
- Optional economizer.

➤ Designed for Operation on Generator Power

- All Marvair single & three phase air conditioners are designed to operate on Generator Power. See *Summary Electrical Ratings* for your specific model.

➤ High Efficiency

- High efficiency compressor.
- Lanced fins standard on all evaporator and condenser coils.

➤ Remote Alarm Capability

- Dry contacts can be used for remote alarm or notification upon air conditioner lockout.

➤ Built-in Reliability

- High pressure switch and low pressure switch with lockout protects refrigerant circuit.
- Built in 3-minute delay on break anti-short cycle protection.

➤ Ease of Service

- Service access valves are standard.
- Standard 2" (50 mm) pleated filter with a MERV rating of 8 changeable from outside.
- All major components are readily accessible.
- Front Control Panel allows easy access and complies with NEC clearance codes on redundant side-by-side systems.
- LEDs indicate operational status and fault conditions.
- Foil backed insulation on the indoor air path.
- A minimum position potentiometer that can be adjusted to prevent the economizer damper from closing completely. This control ensures that whenever the evaporator fan is operating, fresh air is being introduced into the building.

➤ Thermal Expansion Valve

- Improves performance in hot ambient temperatures.

➤ Rugged Construction

- Copper tube, aluminum fin evaporator & condenser coils.
- Field or factory installed heaters on discharge side of evaporator coil (optional)
- Baked on neutral beige finish over galvanneal steel for maximum cabinet life. (Other finishes are available.)
- A sealed condenser fan motor resists sand and corrosion.

➤ Ease of Installation

- Sloped top with flashing eliminates need of rainhood.
- Built-in mounting flanges facilitate installation and minimize chance of water leaks.
- Factory installed disconnect (internal circuit breaker(s)).
- Single Point Power Entry Complies with latest edition of U.L. Standard 60335-2-40.
- Side access panels on economizer models for easy access to electrical connections.
- A phase monitor is standard on all 3-Phase units to continuously measures the voltage of each of the three phases. Protects unit from voltage imbalance including phase loss and phase reversal.

Factory Installed Economizer

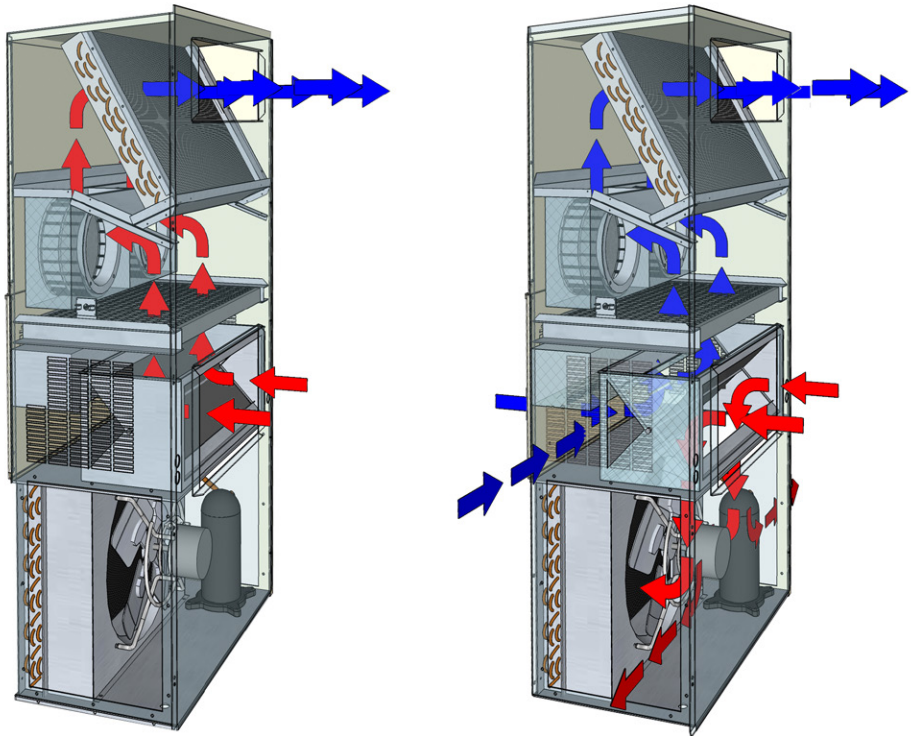
Marvair's wall mount air conditioners have been the industry standard since their introduction in 1986. Tens of thousands of Marvair air conditioners are in operation from the metropolitan areas of North America to the deserts of the Mid-East to the Siberian tundra. Here's how the economizer works:

On a signal from the wall mounted indoor thermostat that cooling is required, either mechanical cooling with the compressor or free cooling with the optional economizer is provided. A factory installed enthalpy sensor determines whether the outside air is sufficiently cool and dry to be used for cooling. If suitable, the compressor is locked out and the economizer damper opens to bring in outside air. Integral pressure relief allows the interior air to exit the shelter, permitting outside air to enter the shelter. The temperature at which the economizer opens is adjustable from 55°F (13°C) at 50% Relative Humidity to 73°F (23°C) at 50% Relative Humidity.

After the enthalpy sensor has activated and outside air is being brought into the building, the mixed air sensor measures the temperature of the supply air and then modulates the economizer damper to mix the right proportion of cool outside air with warm indoor air to maintain 50-63°F (10 - 17°C) air being delivered to the building. This prevents shocking the electronic components with cold outside air. The compressor is not permitted to operate when the economizer is functioning.

If the outside air becomes too hot or humid, the economizer damper closes completely, or to a field selectable minimum open position, and mechanical cooling is activated.

In all Marvair air conditioners, the supply air flow in the economizer mode is the same or greater than the rated air flow. (The rated air flow is the AHRI certified air flow when the unit is in mechanical cooling.) The "full flow" economizer reduces electrical costs by maximizing the use of outside air for cooling.



100% Mechanical Cooling **100% Economizer Cooling**

**Artists rendering may vary from actual production units.*

Savings with an Economizer

The following table shows the annual electrical cost of cooling a 10 ft. x 20 ft. x 9 ft. (3m x 6m x 2.7m) shelter in twelve cities in the US. Costs are shown for an air conditioner without an economizer, for an air conditioner with an economizer and the savings. The savings do not include any demand charges. The savings are based on the electrical usage of a five ton air conditioner and an electric rate of $.11 per kilowatt-hour, the approximate average commercial rate in the US.

Hours of Operation	Atlanta, GA	Boston, MA	Chicago, IL	Dallas, TX	Denver, CO	Houston, TX
Annual Compressor & Condenser Motor Run Time without Economizer (Hrs.)	6,176	6,016	6,018	6,282	6,022	6,299
Annual Compressor & Condenser Motor Run Time with Economizer (Hrs.)	3,456	1,947	2,106	4,062	1,930	4,495
Run Time Savings with the Economizer (Hrs.)	2,720	4,069	3,912	2,220	4,092	1,804
Annual Costs Saving ($) of 11.0 EER unit with an Economizer						
Annual Operating Cost 11.0 EER Unit without Economizer ($)	$3,150	$3,068	$3,069	$3,204	$3,072	$3,212
Annual Operating Cost 11.0 EER with Economizer	$2,071	$1,459	$1,525	$2,323	$1,454	$2,496
Annual Savings using 11.0 EER Unit with Economizer	$1,079	$1,609	$1,544	$881	$1,454	$716

Hours of Operation	Los Angeles, CA	Miami, FL	Phoenix, AZ	Pittsburgh, PA	Seattle, WA	St. Louis, MO
Annual Compressor & Condenser Motor Run Time without Economizer (Hrs.)	6,105	6,434	6,473	6,026	5,999	6,120
Annual Compressor & Condenser Motor Run Time with Economizer (Hrs.)	3,121	6,062	4,799	2,172	1,093	2,896
Run Time Savings with the Economizer (Hrs.)	2,984	372	1,674	3,854	4,906	3,224
Annual Costs Saving ($) of 11.0 EER unit with an Economizer						
Annual Operating Cost 11.0 EER Unit without Economizer ($)	$3,114	$3,282	$3,302	$3,073	$3,060	$3,122
Annual Operating Cost 11.0 EER with Economizer	$1,926	$3,133	$2,636	$1,550	$1,114	$1,846
Annual Savings using 11.0 EER Unit with Economizer	$1,188	$148	$666	$1,523	$1,946	$1,275

Shelter Metrics:
- 10' x 20' x 9' building
- Internal heat gain (electronics load): 12,000 watts.
- Building surface area (excluding floor area): 740 ft²
- R-Value of walls and ceiling: R-12
- Internal shelter temperature (Thermostat set point): 75ºF

Air Conditioner Metrics:
- Economizer setting: 63ºF (dry bulb or enthalpy sensor)
- A/C unit capacity: 60,000 BTUH (5 tons) with 1-stage compressor
- Nominal EER (unit efficiency): 11.0
- Cost of power: $.11 per KWH

Options for Outside Air for Ventilation

Marvair offers ventilation packages for every budget and requirement.

➤ **Configuration "C": Up to 100% Modulating Economizer**

The economizer reduces the cost of air conditioning by using outside air when acceptable to cool the room (Free Cooling). The factory installed Marvair® economizer has integral pressure relief.

Control Board Logic: Upon a "Call for Cooling", the unit controller calculates whether the HVAC operates in economizer mode or mechanical cooling mode based on outdoor temperature (dry bulb) or temperature/humidity (enthalpy). When outdoor conditions are favorable for economizer cooling , the damper drives open and modulates to maintain a 55°F mixed air temperature through the supply grille. When outdoor conditions are not favorable for economizer cooling, the economizer damper remains closed, and the HVAC unit will operate in mechanical cooling mode.

Additional Features Provided with Economizer Options:

Emergency Ventilation Input: When 24VAC is applied to the H_FLT input, the unit controller forces the damper to open 100% for emergency ventilation. The compressor does not operate during Emergency Ventilation. Thermostat must provide the fan "G" signal to HVAC to activate the indoor blower.

Forced Mechanical Cooling: When 24VAC is applied to the FC input of the unit controller, the economizer damper is forced closed, and the HVAC will operate in mechanical cooling mode. This is considered as economizer override in the event economizer cooling is not sufficient for the heat load. Thermostat must provide the fan "G" signal to HVAC to activate the indoor blower.

Economizer Status: The unit controller provides status output based on the economizer functionality.

When minimum position is enabled in the control board, the Marvair® economizer can meet requirements of ASHRAE Std. 62.

➤ **Configuration "D": Two-Position Motorized Fresh Air Damper w/Pressure Relief Ventilation**

Control Board Logic: The unit controller allows the position of the "D" damper to be set for desired outside air intake from fully closed to fully open. The unit controller configuration menu allows the user to set the position from 20 (2VDC / Closed) to 100 (10VDC 100% open). The damper position can be adjusted in 1VDC increments to any position from closed to 100% open as required.

Operation: Anytime the indoor blower operates, the damper drives open to the position selected in the unit controller. When the indoor blower stops operation the motorized damper spring returns to the fully closed position.

Note: This circuit does not interrupt the compressor or heater operation.

➤ **Configuration "E": Two-Position Motorized Fresh Air Damper w/Pressure Relief Ventilation & Independent Control**

Control Board/Factory Installed Relay Logic: The unit controller allows the position of the "E" damper to be set for desired outside air intake from fully closed to fully open. The unit controller configuration menu allows the user to set the position from 20 (2VDC / Closed) to 100 (10VDC 100% open). The damper position can be adjusted in 1VDC increments to any position from closed to 100% open as required.

Operation: Upon a "Call for Motorized damper" via a 24V signal from an external user-installed device, the motorized damper opens to the position selected in the unit controller and the indoor blower operates. A 24VAC signal {sourced from LVTB 24VAC "R" and supplied through a user-provided Normally Open (NO) contact} activates (opens) the Motorized Damper and connected Relief Damper. When the 24VAC signal is removed, the motorized damper spring returns to the fully closed position and the indoor blower stops operation. The motorized damper Does NOT open when there is a call for the indoor fan (G).

Note: This circuit does not interrupt the compressor or heater operation.

➤ **Configuration "F": No Free Cooling, 100%- Damper Opening, Emergency Ventilation Only w/Pressure Relief and Independent Control**

Upon a "Call for emergency ventilation", from an external user-provided device; the motorized damper opens to 100% open position and the indoor blower is forced to operate.

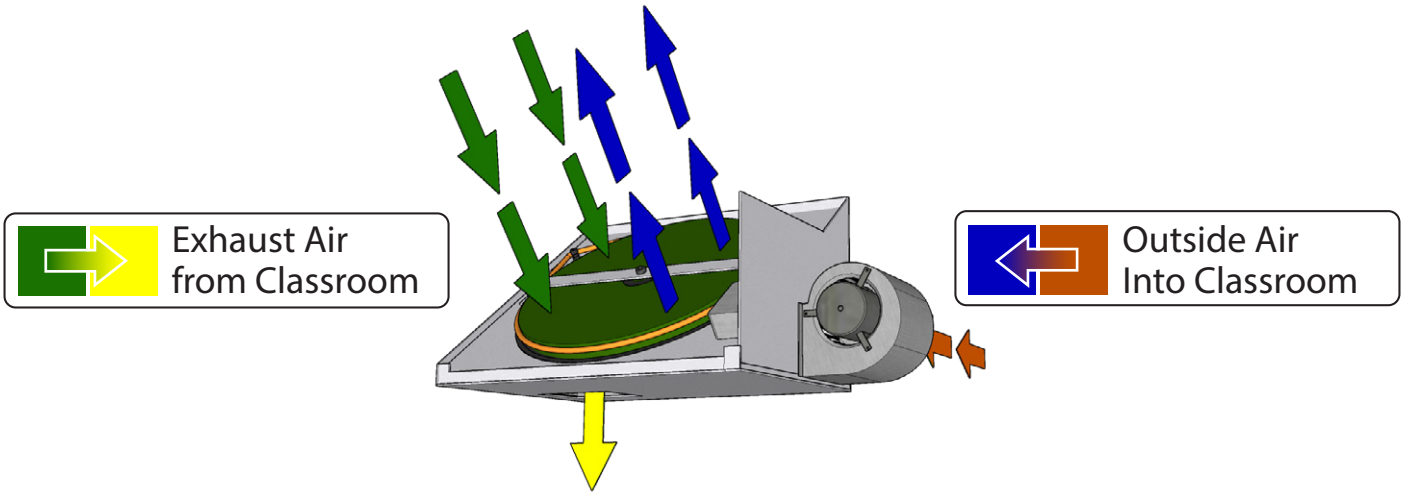
Note: This circuit interrupts the compressor and heater operation and forces the indoor blower and damper to operate during emergency ventilation mode.

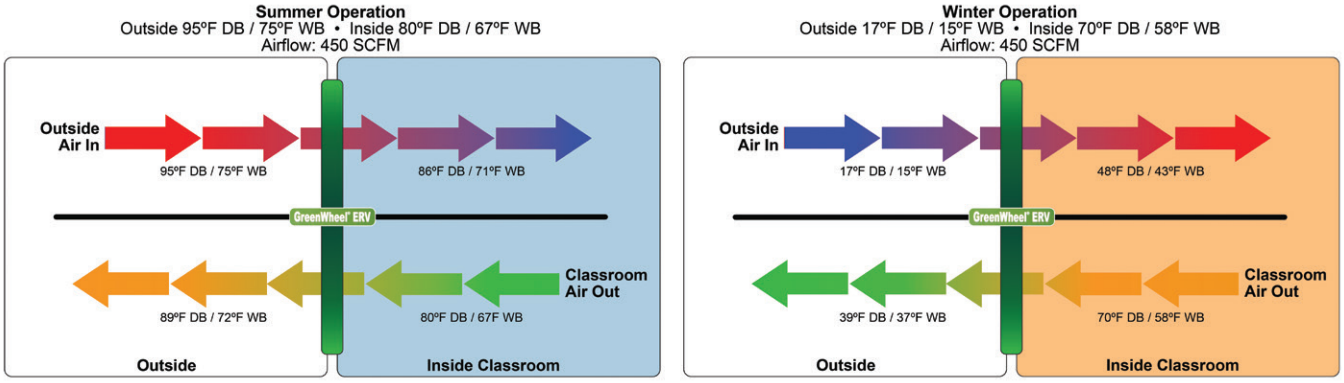
➤ **Configuration "H": GreenWheel® ERV Energy Recovery Ventilator** ***(Optional only for MAH1030/2030 - MAH1060/2060)***

This option includes the GreenWheel, independently controlled intake and exhaust blowers with manually adjustable dampers and an outside air filter. See the Marvair MAH Air Conditioner Installation and Operation Manual for setup and configuration details.

How It Works - During the summer, cool dry air from the classroom is exhausted through the GreenWheel ERV to the outside. As the air passes through the rotating wheel, the desiccant becomes cooler and drier. Simultaneously, hot humid air is being pulled across the rotating wheel. The cool, dry desiccant absorbs moisture and heat from the incoming air. The cooler, drier air is mixed with the return air from the classroom and distributed throughout the room.

In the winter, warm moist air is exhausted through the GreenWheel ERV to the outside. As the air passes through the rotating wheel, the desiccant becomes warmer and absorbs moisture. Simultaneously, cold dry air is being pulled across the rotating wheel. The cold, dry air absorbs heat and moisture from the desiccant. The warmed air is mixed with the return air from the classroom and distributed throughout the room.





For performance of the GreenWheel ERV at conditions other than those shown, please contact your Marvair representative or the factory.

➤ **Configuration "N": Manual Fresh Air Damper** ***(Standard)***

Barometric damper capable of up to 15% of the air conditioner's total rated airflow of outside air; field adjustable, no internal pressure relief.

➤ **Configuration "T": Title 24 Compliant Economizer & Controls**

California Title 24 compliant economizer and associated controls available on 4-5 Ton units.

Controllers and Thermostats

➤ **Thermostats and Controllers for Single Stage and 2-Stage Air Conditioners**

See the *Marvair Thermostats and Controllers Product Data Sheet* for the thermostats and controllers for use with Marvair air conditioners.

Supply/Return Grilles

➤ Supply Grilles - Single Stage and 2-Stage Air Conditioners

All Supply Grilles are double deflection and made from anodized aluminum.

For MAH1018A - 13" x 5" (330 mm x 125 mm) ..... *P/N 80685*
For MAH1020A, MAH1024A & MAH2024A– 20" x 8" (508 mm x 203 mm) ..... *P/N 80674*
For MAH1030A, , MAH1036A & MAH2030A, MAH2036A – 28" x 8" (711 mm x 203 mm) ..... *P/N 80675*
For MAH1042A, MAH1048A, MAH1060A, MGH1072A & MAH2042A, MAH2048A, MAH2060A, MGH2072A – 30" x 10" (762 mm x 254 mm) ..... *P/N 80676*
For MAH1060A, MGH1072A & MAH2060A, MGH2072A Center Supply/Top Return – 30" x 16" (762 mm x 406 mm) ..... *P/N 93197*

➤ Return Grilles - Single Stage and 2-Stage Air Conditioners

For MAH1020A, MAH1024A & MAH2024A – 20" x 12" (508 mm x 305 mm) ..... *P/N 80677*
For MAH1030A, MAH1036A, MAH2030A, MAH2036A – 28" x 14" (711 mm x 356 mm) ..... *P/N 80678*
For MAH1042A, MAH1048A, MAH1060A, MGH1072A &, MAH2042A, MAH2048A, MAH2060A, MGH2072A– 30" x 16" (762 mm x 406 mm) ..... *P/N 80679*
For MAH1060A, MGH1072A & MAH2060A, MGH2072A Center Supply/Top Return – 30" x 10" (762 mm x 254 mm)..... P/N 93198

➤ Return Filter Grilles - Single Stage and 2-Stage Air Conditioners

Used when filter must be changed from the interior. Not recommended for economizer equipped air conditioners.
Note: Filter used in Return Filter Grille is 1" (25 mm) thick.

For MAH1018A - 14" x 12" (356 mm x 305 mm) ..... *P/N 80680*
For MAH1020A, MAH1024A & MAH2024A – 20" x 12" (508 mm x 305 mm) ..... *P/N 80671*
1" Replacement Filter ..... *P/N 91983*
For MAH1030A, MAH1036A & MAH2030A, MAH2036A – 28" x 14" (711 mm x 356 mm) ..... *P/N 80672*
1" Replacement Filter ..... *P/N 80769*
For MAH1042A, MAH1048A, MAH1060A, MGH1072A & MAH2042A, MAH2048A, MAH2060A, MGH2072A 30" x 16" (762 mm x 406 mm) ..... *P/N 80673*
1" Replacement Filter ..... *P/N 80140*

Options

Marvair air conditioners were designed and are built to stringent requirements of the industries served. Applications occur that have special requirements. Numerous options are available to meet these special needs.

➤ Hard Start Kit

Used on single phase equipment to give the compressor higher starting torque under low voltage conditions.

➤ Electric Reheat Dehumidification

Allows the electric heat to operate simultaneously with cooling. ***Note:*** The electrical characteristics and requirements of air conditioners with the dehumidification option are different from standard air conditioners. Refer to the appropriate Summary Rating Charts for the electrical characteristics of units with Electric Reheat. Units with reheat require a thermostat and a dehumidistat for proper operation.

➤ Hot Gas Reheat (HGR) for Dehumidification

A Hot Gas Reheat coil and controls allow the indoor humidity of the controlled environment to be maintained at or below a certain humidity set point. These units do not have the ability to add humidity to the room. Dehumidification is achieved by operating mechanical cooling in conjunction with a hot gas reheat coil.

➤ Protective Coating Packages

Coated Coils: Either the condenser or evaporator coil can be coated. For harsh conditions, e.g., power plants, paper mills or sites were the unit will be exposed to salt water, the coils should be coated.

Coastal Environmental Package: This package includes:

- Corrosion resistant fasteners,
- Coated condenser motor, motor bracket and condenser fan,
- Insitu coating applied to all exposed internal copper and metal in the in the condenser section, and
- A protective coating on the condenser coil.

Coat All Package: Includes the same features as the *Coastal Environmental Package* and adds:

- Insitu coating to the evaporator coil and all associated piping,
- All exterior and interior components and sheet metal.

Note 1: The insulated internal sheet metal, back panel and internal control box are not coated.
Note 2: The corrosion prevention coating can not be applied to stainless steel.

➤ **Wall Mount Air Conditioner Transition Curb**
Used when replacing a unit with different size supply/return openings. Contact your Marvair sales representative for application details

➤ **High Filtration**
Factory installed two inch (51 cm) higher efficiency filters with MERV ratings of 11 and 13 when tested to ASHRAE 52.2. Ultra high filtration material that removes most airborne mold, spores and dust. Units with economizers have a prefilter on the outside air.

➤ **Washable Filter**
Spun aluminum construction allows cleaning of filters with water.

➤ **Center Supply/Top Return Configuration**
Location of Supply and Return openings are reversed. See dimensional drawings.

➤ **Cabinet Color**
The standard colors are Marvair® beige, white, gray and Carlsbad Canyon (brown). The standard cabinet's sides, top and front panels are constructed of 20 gauge painted steel (16 gauge for 6-Ton units). Contact your Marvair representative for standard color chips. Custom colors are also available; contact Marvair for details.

Two stainless steel cabinet constructions are available:

- **Stainless Steel Exterior (Option "5"):** This option replaces all standard exterior painted surfaces with stainless steel. This option also replaces the standard unpainted compressor base of the unit and exterior cabinet screws with stainless steel. No other standard construction surfaces are stainless steel in this option, unless listed in this description. Back panel is not stainless steel with this option. This option is designed to give a more economical alternative to full stainless steel, and still offer an enhanced level of protection. For further corrosion protection, please see our "A" offering at full stainless on all metal components.
- **Stainless Steel Unit (Option "A"):** This option replaces all interior and exterior steel sheet metal parts with stainless steel. All galvanized and painted steel surfaces found in the standard unit are stainless steel with this option. All cabinet screws are stainless steel. No other standard construction surfaces are stainless steel, unless listed in this description. This option is designed to give our most robust protection against steel corrosion.

➤ **Extended Warranty**
A first-year labor (Silver), and a two-year parts and labor (Gold) are available. See *www.marvair.com* for optional warranty details.

➤ **Dirty Filter Indicator**
A factory installed option that measures the difference in pressure across the internal filter and illuminates an external LED when the pressure exceeds the desired difference. For units with the standard Marvair Electronic Control Board (PCB) a set of normally open or normally closed dry alarm contacts are provided. For units equipped with the optional PLC, the PLC will send a ModBus notification as well as providing normally open or normally closed dry alarm contacts.

➤ **Compressor Sound Blanket**
To reduce sound of compressor.

➤ **Lockable Disconnect (Internal Circuit Breaker(s)) Access Cover Plate**
The access plate to the internal service disconnect can be equipped with a lockable cover.

➤ **Compressor Locations**
Most MAH air conditioners can be built with the compressor on the opposite side to facilitate service access when two units are installed side by side. On 1.5 - 3 ton models, the standard location for the compressor is on the right. On 3.5 - 5 ton models, the standard location for the compressor is on the left side, 6 ton models are in the center.

➤ **Desert Duty Package**
To prevent sand and dust infiltration, the electrical control box is sealed.

➤ **Anti-Microbial Light**
A factory installed UV lamp to help improve indoor air quality.

➤ **Cold Plasma Air Purification Device**
A factory installed device to help improve indoor air quality.

Contact your Marvair representative for additional available options.

Dry Contacts Alarm Outputs

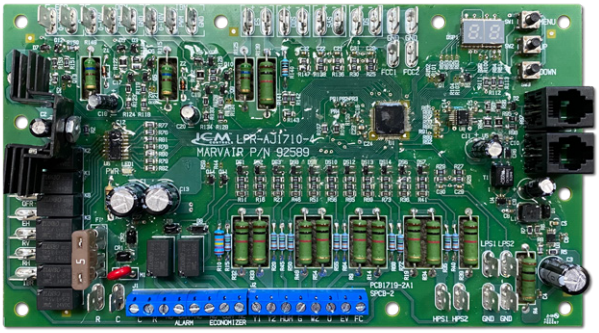
A dry contact is provided for each HVAC unit to indicate HVAC unit failure to the shelter alarm block. Unit failure is defined as 1) a high pressure lockout or 2) a low pressure lockout.

Controls

➤ Electronic Control Board

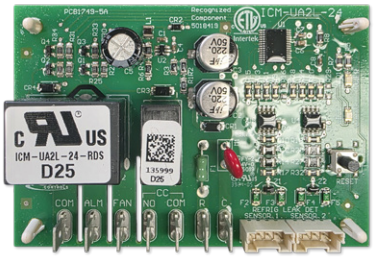
The exclusive Printed Circuit Board (PCB) is standard in Marvair air conditioners (PLC optional) and sets the standard for the industry in terms of flexibility, reliability, and performance. This UL certified component is engineered to optimize Heating, Cooling and Dehumidification operation while communicating valuable information to the end user.

Special Features Include:



- Improved HVAC System Reliability (Built In Sequence / Timer Functionality And Simplified Wiring)
- On Board Configuration Menu With Adjustments Of Various Functions and Setpoints
- 2-Stage Compressor Operation
- Independent Indoor Blower Speed Adjustments For 1st Stage Cooling, 2nd Stage Cooling, Electric Heat And Dehumidification (Optimize Latent and Sensible Capacity)
- Built-In Remote Communication (Monitor and Control Via MODBUS Qty. 2 RJ11 Ports)
- Alarm Status and Fault Display(Drastically Reduces Troubleshooting Time and System Downtime)
- Thermocouple Thermistor To Monitor Refrigerant Temperature Of The Evaporator Feeder Tubes and Liquid Line Circuit
- Economizer Control With Adjustments For Both Enthalpy Or Dry Bulb Sensor
- Economizer Status Output Contacts
- Emergency Ventilation Control (Systems Equipped with Ventilation Package “C” or “F”)
- Forced Cooling (Overrides Economizer Operation)
- Dehumidification Control (Systems Equipped With Electric Reheat Or Hot Gas Reheat Dehumidification)
- Lockout Contacts (Normally Open Or Normally Closed)
- Alarms Communicated Via MODBUS

➤ Refrigerant Mitigation Board



All models in this manual are equipped with a R454B refrigerant leak detection system. Once the unit is installed it must be powered, at all times, except for service. During normal operation the leak detection system has no impact on the operation of the unit, however upon detection of R-454B refrigerant all operations are stopped except for the indoor blower. The unit will then re-circulate air in the room for a minimum of 5 minutes. Once the 5 minutes have expired and the concentration of the refrigerant is below 8 percent of the Lower Flammability Limit (LFL) the unit will be allowed to operate as normal. If the concentration of the refrigerant remains above 8 percent of the LFL the unit will remain in re-circulation mode. To verify actuation of mitigation simply remove the sensor from the mitigation control board and the system should stop all operation except for the indoor blower. There is no need to calibrate or service the sensor. The sensor will provide an alarm upon failure or end of life. The sensor must be replaced with an identical sensor, or a manufacturer approved alternative.

➤ Ambient Temperature Operating Ranges

Basic Model	Special Option	TEMPERATURE RANGES
Non-Economizer	Base Unit	0ºF - 131ºF (-18ºC - 55ºC)
Economizer-Equipped	Base Unit	-40ºF - 131ºF (-40ºC - 55ºC)

➤ SCFM @ Various External Static Pressures

Model Number	IWG Static Pressure						
	0.10	0.15	0.20	0.25	0.30	0.40	0.50
MAH1018A	685	670	670	642	640	600	
MAH1020A	760	745	730	685	640	560	
MAH1024A/MAH2024A	850	800	750	700	650	550	***450***
MAH1030A/MAH2030A	1120	1070	1020	970	920	820	***720***
MAH1036A/MAH2036A	1250	1200	1150	1100	1050	950	***850***
MAH1042A/MAH2042A	1300	1250	1200	1150	1100	1000	***900***
MAH1048A/MAH2048A	1500	1450	1400	1350	1300	1200	***1100***
MAH1060A/MAH2060A	1850	1800	1750	1700	1650	1550	***1450***
MGH1072A/MGH2072A	2100	2050	2000	1950	1900	1800	***1700***

Values in bold are the minimum air flow. Air flow ratings of 208-230 volt units are at 230v. Air flow ratings of 460 volt units are at 460 volts. Operation of units at a voltage different from the rating point will affect air flow.

➤ Room Size Limitations

		MAH1020A	MAH1024A	MAH1030A	MAH1036A	MAH1042A	MAH1048A	MAH1060A	MGH1072A
Minimum Room Size (ft²)	Top Supply	74.6	74.6	88.4	88.4	110.0	110.0	103.1	132.5
	Center Supply				173.4			202.3	260.1
Minimum Supply Height (ft)	Top Supply	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
	Center Supply				3.5			3.5	3.5
			MAH2024A	MAH2030A	MAH2036A	MAH2042A	MAH2048A	MAH2060A	MGH2072A
Minimum Room Size (ft²)	Top Supply		93.3	88.4	103.1	120.8	125.7	122.7	147.3
	Center Supply				202.3			240.9	289.0
Minimum Supply Height (ft)	Top Supply		6.9	6.9	6.9	6.9	6.9	6.9	6.9
	Center Supply				3.5			3.5	3.5

Model Identification

Example	M	A	H	1	0	3	6	A	D	0	5	0	C	+	+	+	+	1	E	A	+	C	3	1	+	+	+	+	+	+
Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

1	Unit Designation/Family	**M** = Marvair Wall Mount **S** = Stock Unit
2	Energy Efficiency Ratio (EER)	**A** = 11 **G** = 10
3	Refrigerant Type	**H** = R-454B
4	Compressor Type/Quantity	**1** = Fixed Speed/Single **2** = 2-Stage/Single (024–072 Only)
5 6 7	Unit Capacity/Nominal Cooling (BTUH)	**018** = 18,000 | **042** = 42,000 **020** = 20,000 | **048** = 48,000 **024** = 24,000 | **060** = 60,000 **030** = 30,000 | **072** = 72,000 **036** = 36,000
8	System Type	**A** = Air Conditioner
9	Power Supply (Volts-Hz-Phase)	**A** = 208/230-60-1 | **D** = 460-60-3 **C** = 208/230-60-3 | **Z** = 575-60-3
10 11 12	Heat Designation @ Rated Voltage	**000** = No Heat | **080** = 8KW **022** = 2.2KW | **090** = 9KW **036** = 3.6KW | **100** = 10KW **040** = 4KW | **120** = 12KW **050** = 5KW | **150** = 15KW **060** = 6KW
13	Ventilation Configuration	**A** = Solid Front Door **C** = Economizer **D** = Motorized Damper w/Pressure Relief **E** = Motorized Damper w/Pressure Relief & Independent Motorized Damper Control **F** = No Free Cooling, 100% Emergency Ventilation Only w/Independent Control **H** = GreenWheel® ERV (030–072 Only) **N** = Barometric Damper w/15% OSA **T** = Title 24 Compliant Economizer & Controls **V** = Economizer (VZW) **+** = None **$** = Special
14	Dehumidification	**G** = Hot Gas Reheat **R** = Electric Reheat **+** = None **$** = Special
15	Controls	**A** = Power Fail Alarm w/Additional Lockouts **C** = 24V EMS Relay Kit **H** = Factory Installed PLC **N** = Relay Logic (018 Only - STD) **+** = Printed Circuit Board (STD - 020–072) **$** = Special
16	Operating Condition	**D** = Desert Duty **F** = Desert Duty w/Hard Start **V** = Hard Start w/Low Ambient & CCH & EFS **Z** = Low Ambient w/CCH & EFS **2** = Low Ambient & EFS (STD) **$** = Special

Note: Not all options are available with all configurations. Contact your Marvair sales representative for configuration details and feature compatibility.

17	Indoor Air Quality Features	**A** = UV Light **D** = Dry Bulb Sensor **E** = Dry Bulb Sensor w/Dirty Filter **G** = Dirty Filter Sensor **K** = Bi-Polar Ionization **V** = Dry Bulb, Dirty Filter & Dust Sensor **+** = None **$** = Special
18	Air Flow	**1** = Top Supply/Center Return (STD) **2** = Center Supply/Top Return **3** = Bottom Supply/Middle Return (018 only) **6** = 3T3 w/Top Supply/Center Return **7** = 3T5 w/Top Supply/Center Return **9** = 4T3 **D** = 3T3 Center Supply/Top Return **E** = 3T5 Center Supply/Top Return **$** = Special
19	Compressor Location	**C** = Center - All 6 ton units & 5 ton Center Supply/Top Return **D** = Left Hand - All 3½ to 5 ton units **E** = Right Hand - All 1½ to 3 ton units
20	Filter Option	**A** = 2" Pleated (MERV 8, AC/HP-C) **D** = MERV 11 High Filtration Package **E** = MERV 13 High Filtration Package **W** = Aluminum Washable **+** = None **$** = Special
21	Corrosion Protection	**A** = Condenser Coil Only **C** = Evaporator Coil Only **D** = Both Coils Condenser & Evaporator **E** = All Coils Cond/Evap/Reheat **F** = Coat All **G** = Coastal Package & Evaporator Coil **K** = Coastal Package **+** = None **$** = Special
22 23	Engineering Revision Level	**C3** | **D3**
24	Cabinet Color	**1** = Marvair Beige (STD) **2** = Gray (STD) **3** = Carlsbad Canyon (STD) **4** = White (STD) **5** = Stainless Steel Exterior **A** = Stainless Steel - Unit **$** = Custom Color
25	Sound Attenuation	**2** = Compressor Blanket **+** = None
26	Security Option	**A** = Lockable Access Plate/Tamper Proof **+** = None **$** = Special
27	Fastener/Drain Pan Option	**A** = Stainless Steel Fasteners **C** = Stainless Steel Drain Pan **D** = Stainless Steel Fasteners & Drain Pan **+** = None **$** = Special
28	Unused	**+** = None **$** = Special
29	Unused	**+** = None **$** = Special
30	Special Variation	**+** = None **$** = Special Configuration Not Covered by Model Nomenclature

GreenWheel® Energy Recovery Ventilator Performance

SCFM* of Outside Air	Energy Conserved, BTUH					
	95° DB/73° WB Outside • 80° DB/67° WB Inside			95° DB/80° WB Outside • 80° DB/67° WB Inside		
	Sensible	Latent	Total	Sensible	Latent	Total
225	2,900	1,100	4,000	2,900	6,400	9,300
250	3,100	1,200	4,300	3,100	6,900	10,000
325	3,700	1,400	5,100	3,700	8,100	11,800
400	4,200	1,500	5,700	4,200	9,100	13,300
450	4,500	1,600	6,100	4,500	9,700	14,200

SCFM* of Outside Air	Energy Conserved, BTUH								
	90° DB/74° WB Outside • 75° DB/ 64° WB Inside			80° DB/70° WB Outside • 75° DB/ 64° WB Inside			60° DB/54° WB Outside • 70° DB/ 58° WB Inside		
	Sensible	Latent	Total	Sensible	Latent	Total	Sensible	Latent	Total
225	2800	3600	6400	900	2800	2700	1900	200	2100
250	3000	3800	6800	1000	3000	4000	2000	200	2200
325	3600	4500	8100	1200	3500	4700	2400	200	2600
400	4100	4900	9000	1400	3800	5200	2700	300	3000
450	4300	5200	9500	1400	4000	5400	2900	300	3200

SCFM* of Outside Air	Energy Conserved, BTUH								
	40° DB/36° WB Outside • 70° DB/ 58° WB Inside			20° DB/18° WB Outside • 70° DB/ 58° WB Inside			0° DB/7° WB Outside • 70° DB/ 58° WB Inside		
	Sensible	Latent	Total	Sensible	Latent	Total	Sensible	Latent	Total
225	5600	3300	8900	9300	4900	14200	13000	5700	18700
250	6000	3600	9600	10000	5300	15300	14000	6100	14100
325	7200	4200	11400	12000	6200	18200	16700	7100	23800
400	8100	4600	12700	13500	6800	20300	18900	7900	26800
450	8600	4800	13400	14400	7100	21500	20100	8200	28300

*SCFM = Standard Cubic Feet per Minute
For performance of the GreenWheel® ERV at conditions other than those shown, please contact your Marvair® representative or the factory.

Marvair Single Stage Wall Mount Air Conditioner Performance Data

Efficiency and Capacity Ratings at ANSI/AHRI Standard 390 - MAH Air Conditioners with Single Stage Compressor

Model Number	MAH1018A	MAH1020A	MAH1024A				MAH1030A				MAH1036A				MAH1042A				MAH1048A				MAH1060A				MGH1072A			
	A	A	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z
Cooling BTUH[1]	17,500	20,000	24,000				29,000				35,000				41,000				45,000				54,600				70,000			
EER[2]	11.00	11.00	11.00				11.00				11.00				11.50				11.00				11.00				10.00			
Rated Air Flow (CFM[3])	660	760	850				1,070				1,200				1,250				1,400				1,750				2,000			

[1]Cooling rated at 95°F (35°C) outdoor and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air [2]EER=Energy Efficiency Ratio
[3]CFM=Cubic Feet per Minute
Ratings are with no outside air. Performance will be affected by altitude.
Ratings are at 230 volts for 208/230 volt units ("A" & "C" models) and 460 volts for "D" models. Operation of units at a different voltage from that of the rating point will affect performance and air flow.

Sensible Total Heat Ratio @ 95ºF (35ºC) Outside Air Dry Bulb - MAH Air Conditioners with Single Stage Compressor

Model Number	MAH1018A	MAH1020A	MAH1024A				MAH1030A				MAH1036A				MAH1042A				MAH1048A				MAH1060A				MGH1072A			
	A	A	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z	A	C	D	Z
Total Capacity	17,500	20,000	24,000				29,000				35,000				41,000				45,000				54,600				70,000			
Sensible Heat Ratio	0.77	0.78	0.74				0.76				0.71				0.71				0.71				0.71				0.65			
Sensible Capacity	13,500	15,600	17,700				22,000				25,000				29,000				32,100				39,000				45,700			
Rated Air Flow (CFM[1])	660	760	850				1,070				1,200				1,250				1,400				1,750				2,000			

[1]CFM=Cubic Feet per Minute
Sensible heat ratios based upon ANSI/AHRI std. 390 outdoor air conditions of 95°F (35°C) and 80°F DB/67° WB (26.5°C DB/19.5°C WB) return air.

ChargePoint® CP6000 AC Commercial Station

Specifications and Ordering Information

Dual port, pedestal mount, 18 ft cable

Ordering Information

The order codes below represent specific product configurations. Please contact ChargePoint Sales for additional information. Specify model number followed by the applicable code(s).

The order code sequence is Model-Options. Software, Services and Other are ordered as separate line items.

Hardware: Station Model

Description	Order Code
80 A Dual port, pedestal mount, 18 ft cable	CP6021B-80A-L5.5
80 A Single port, pedestal mount, 18 ft cable	CP6011B-80A-L5.5
80 A Dual port, pedestal mount, 18 ft cable, EMV chip reader	CP6021B-80A-L5.5-CHIP
80 A Single port, pedestal mount, 18 ft cable, EMV chip reader	CP6011B-80A-L5.5-CHIP
50 A Dual port, pedestal mount, 18 ft cable	CP6021B-50A-L5.5
50 A Single port, pedestal mount, 18 ft cable	CP6011B-50A-L5.5
50 A Dual port, pedestal mount, 18 ft cable, EMV chip reader	CP6021B-50A-L5.5-CHIP
50 A Single port, pedestal mount, 18 ft cable, EMV chip reader	CP6011B-50A-L5.5-CHIP
80 A Dual port, wall mount, 18 ft cable	CP6023B-80A-L5.5
80 A Single port, wall mount, 18 ft cable	CP6013B-80A-L5.5
80 A Dual port, wall mount, 18 ft cable, EMV chip reader	CP6023B-80A-L5.5-CHIP
80 A Single port, wall mount, 18 ft cable, EMV chip reader	CP6013B-80A-L5.5-CHIP
50 A Dual port, wall mount, 18 ft cable	CP6023B-50A-L5.5
50 A Single port, wall mount, 18 ft cable	CP6013B-50A-L5.5
50 A Dual port, wall mount, 18 ft cable, EMV chip	CP6023B-50A-L5.5-CHIP

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reader	
50 A Single port, wall mount, 18 ft cable, EMV chip reader	CP6013B-50A-L5.5-CHIP
80 A Dual port, pedestal mount, 23 ft cable	CP6021B-80A-L7
80 A Single port, pedestal mount, 23 ft cable	CP6011B-80A-L7
80 A Dual port, pedestal mount, 23 ft cable, EMV chip reader	CP6021B-80A-L7-CHIP
80 A Single port, pedestal mount, 23 ft cable, EMV chip reader	CP6011B-80A-L7-CHIP
50 A Dual port, pedestal mount, 23 ft cable	CP6021B-50A-L7
50 A Single port, pedestal mount, 23 ft cable	CP6011B-50A-L7
50 A Dual port, pedestal mount, 23 ft cable, EMV chip reader	CP6021B-50A-L7-CHIP
50 A Single port, pedestal mount, 23 ft cable, EMV chip reader	CP6011B-50A-L7-CHIP
80 A Dual port, wall mount, 23 ft cable	CP6023B-80A-L7
80 A Single port, wall mount, 23 ft cable	CP6013B-80A-L7
80 A Dual port, wall mount, 23 ft cable, EMV chip reader	CP6023B-80A-L7-CHIP
80 A Single port, wall mount, 23 ft cable, EMV chip reader	CP6013B-80A-L7-CHIP
50 A Dual port, wall mount, 23 ft cable	CP6023B-50A-L7
50 A Single port, wall mount, 23 ft cable	CP6013B-50A-L7
50 A Dual port, wall mount, 23 ft cable, EMV chip reader	CP6023B-50A-L7-CHIP
50 A Single port, wall mount, 23 ft cable, EMV chip reader	CP6013B-50A-L7-CHIP

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80 A Dual port, pedestal mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6621B-80A-L5.5
80 A Single port, pedestal mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6611B-80A-L5.5
50 A Dual port, pedestal mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6621B-50A-L5.5
50 A Single port, pedestal mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6611B-50A-L5.5
80 A Dual port, wall mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6623B-80A-L5.5
80 A Single port, wall mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6613B-80A-L5.5
50 A Dual port, wall mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6623B-50A-L5.5
50 A Single port, wall mount, 18 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6613B-50A-L5.5
80 A Dual port, pedestal mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6621B-80A-L7
80 A Single port, pedestal mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6611B-80A-L7
50 A Dual port, pedestal mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6621B-50A-L7
50 A Single port, pedestal mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6611B-50A-L7

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80 A Dual port, wall mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6623B-80A-L7
80 A Single port, wall mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6613B-80A-L7
50 A Dual port, wall mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6623B-50A-L7
50 A Single port, wall mount, 23 ft cable, Omni Port (enables J1772 and/or NACS vehicle charging)	CP6613B-50A-L7

Hardware: Other

Description	Order Code
Pedestal Concrete Mounting Kit	CP6K-CMT-NA
CP6000 Dual Port Omni Port Conversion Kit	CP6000-DUAL-J1772-NACS-OMNI-CONV-KIT
CP6000 Single Port Omni Port Conversion Kit	CP6000-SINGLE-J1772-NACS-OMNI-CONV-KIT

Software and Services

Description	Order Code
ChargePoint Enterprise Plan	CPCLD-ENTERPRISE-n*
ChargePoint Fleet Commercial	CPCLD-COMMERCIAL-n*
ChargePoint Assure	CP6000-ASSURE-n*
ChargePoint Installation	CP6000-INSTALL-COMMISSIONING

Note: All CP6000 stations require a network service plan per port.

*Substitute n for desired years (1, 2, 3, 4 or 5 years)

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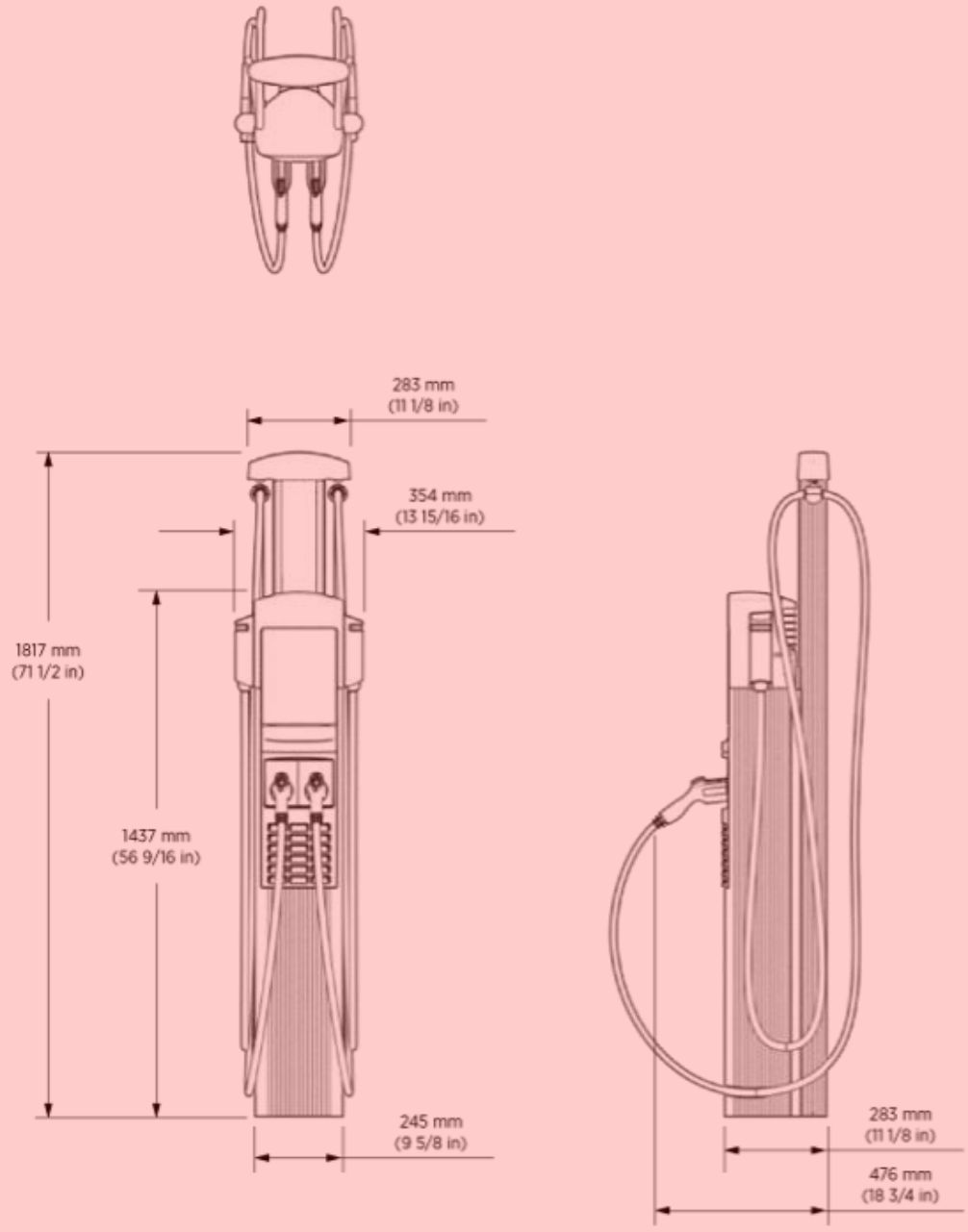
Architectural Drawings and Dimensions

Pedestal Mount



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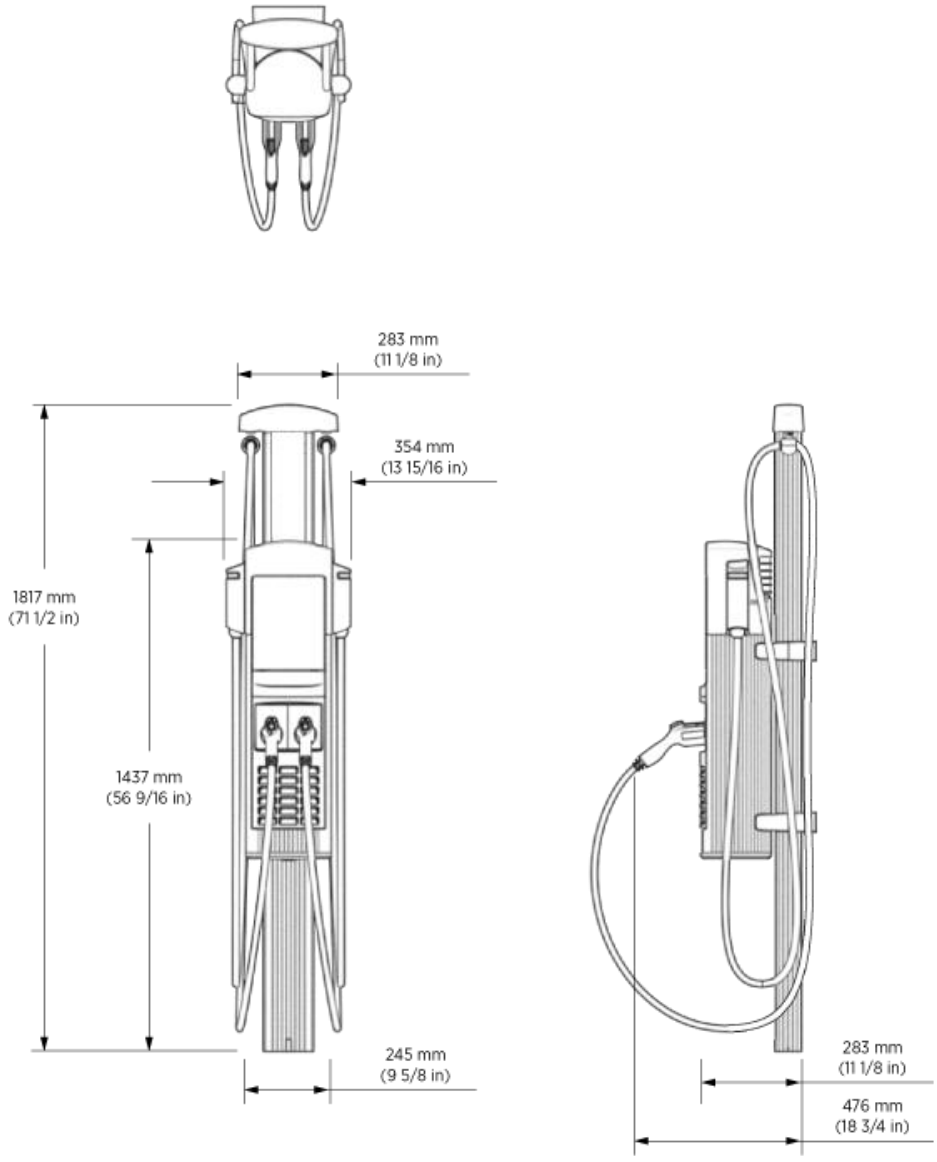
Wall Mount



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General Specifications

Electrical Input

The CP6000 AC Commercial Station supports flexible electrical input/output settings up to 80 A to fit your fueling needs, whether for a workplace, multi-family dwelling, or other application.

Power Select allows stations to be installed and configured for current lower than the maximum 80 A. Power Select current options include 16 A, 24 A, 32 A, 40 A, 48 A, 50 A, 56 A, 64 A, and 72 A.

Power Share allows a dual-port station to share power from a single circuit across two ports, adjusting power depending on whether one or both are charging. Standard wiring uses an independent circuit for each port. Power Share can be used in combination with Power Select.

Station	Electrical Input	Single Port (AC Voltage 208 / 240 V AC)			Dual Port (AC Voltage 208 / 240 V AC)		
		Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker
80 A	Maximum 80 A (Standard)	80 A	One 100 A branch circuit	100 A dual pole (non-GFCI)	80 A x 2	Two independent 100 A branch circuits	100 A dual pole (non GFCI) x 2
	Maximum 80 A (Power Share*)	N/A	N/A	N/A	80 A	One 100 A branch circuit	100 A dual pole (non GFCI)
	Power Select** 16 A – 72 A (Standard)	16 A - 72 A	One branch circuit rated 125% of input current (20 A – 90 A)	Dual pole (non-GFCI) rated 125% of input current (20 A – 90 A)	16 A - 72 A x 2	Two independent branch circuits rated 125% of input current (20 A – 90 A)	Dual pole (non-GFCI) rated 125% of input current (20 A – 90 A) x 2
	Power Select 16 A	N/A	N/A	N/A	16 A - 72 A	One branch circuit rated 125% of	Dual pole (non-GFCI)

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	- 72 A (Power Share)					input current (20 A – 90 A)	rated 125% of input current (20 A – 90 A)
50 A	Maximum 50 A (Standard)	50 A	One 70 A branch circuit	70 A dual pole (non-GFCI)	50 A x 2	Two independent 70 A branch circuits	70 A dual pole (non GFCI) x 2
	Maximum 50 A (Power Share*)	N/A	N/A	N/A	80 A	One 70 A branch circuit	70 A dual pole (non GFCI)
	Power Select** 16 A – 48 A (Standard)	16 A - 48 A	One branch circuit rated 125% of input current (20 A – 60 A)	Dual pole (non-GFCI) rated 125% of input current (20 A- 60 A)	16 A - 48 A x 2	Two independent branch circuits rated 125% of input current (20 A – 60 A)	Dual pole (non-GFCI) rated 125% of input current (20 A – 60 A) x 2
	Power Select 16 A - 48 A (Power Share)	N/A	N/A	N/A	16 A - 48 A	One branch circuit rated 125% of input current (20 A – 60 A)	Dual pole (non-GFCI) rated 125% of input current (20 A – 60 A)
Service Panel/Breaker GFCI	Do not provide external GFCI as it may conflict with internal GFCI (CCID)						
Wiring – Standard	3-wire (L1, L2, Earth) No neutral				5-wire (L1, L1, L2, L2, Earth)		
Wiring – Power Share	N/A				3-wire (L1, L2, Earth)		
Station Power	8 W typical (standby), 15 W maximum (operation)						

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Line to Ground Voltage	120 V +/- 10%

Electrical Output for 80A Station

Electrical Output	Single Port (AC Voltage 208 / 240 V AC)	Dual Port (AC Voltage 208 / 240 V AC)
Maximum 80 A (Standard)	19.2 kW (240 V AC @ 80A)	19.2 kW (240 V AC @ 80 A)
Maximum 80 A (Power Share)	N/A	19.2 kW (240V AC @ 80A) x 1 or 9.6 kW (240V AC @ 40A) x 2
Power Select 16A - 72A (Standard)	3.8 kW - 17.3 kW (240V AC @ 16A - 72A)	3.8 kW - 17.3 kW (240V AC @ 16A - 72A) x 2
Power Select 16A - 72A (Power Share)	N/A	3.8 kW - 17.3 kW (240V AC @ 16A - 72A) x 1 or 1.9 kW - 8.6 kW (240V AC @ 8A - 36A) x 2

Electrical Output for 50A Station

Electrical Output	Single Port (AC Voltage 208 / 240 V AC)	Dual Port (AC Voltage 208 / 240 V AC)
Maximum 50A (Standard)	12.0 kW (240V AC @ 50A)	12.0 kW (240V AC @ 50A)
Maximum 50A (Power Share)	N/A	12.0 kW (240V AC @ 50A) x 1 or 6.0 kW (240V AC @ 25A) x 2
Power Select 16A - 48A (Standard)	3.8 kW - 11.5 kW (240V AC @ 16A - 48A)	3.8 kW - 11.5 kW (240V AC @ 16A - 48A) x 2
	N/A	3.8 kW - 11.5 kW (240V AC @

ChargePoint, Inc. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

Power Select 16A - 48A (Power Share)		16A - 48A) x 1 or 1.9 kW - 5.8 kW (240V AC @ 8A - 24A) x 2

Mounting and Functional Interfaces

Connector Type	J1772, NACS (Omni Port)
Number of Ports	Single, dual
Mounting	Pedestal, wall
Cable Length	18 ft (5.5 m), 23 ft (7 m)
Cable Management	Yes
Authentication and Payment	RFID: ISO 15693, ISO 14443, NEMA EVSE 1.2-2015 (UR) Virtual RFID NFC (Tap to Charge) Contactless credit card Virtual Contactless credit card Apple Pay / Google Pay EMV chip credit card (available on -CHIP models only) Remote: Mobile App and In Vehicle Dash (if supported by vehicle)
Locking Holster	Yes
ISO 15118 Protocol	Supported by hardware
Display	Full color 8-inch interactive display with full motion video, UV protection, gesture touch controls, and multi-language support

Safety and Connectivity Features

Ground Fault Detection	20 mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772 specifications
Energy Measurement	Meter accuracy 1% Accuracy class 2.0

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	Acceptance tolerance 1.0%
Power Report/Store Interval	15-minute interval aligned to hour. Responsive to load management signals.
Local Area Network	Wi-Fi 2.4 GHz and 5GHz (802.11 a/n/b/g)
Wide Area Network	LTE Category 4
Network Communication Protocol	OCPP 2.0.1
Ethernet connection	Capable with accessory

Safety and Operational Ratings

Station Enclosure Rating	Type 3R per UL 50E
Safety and Compliance	UL and cUL listed; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625 Energy Star NTEP/CTEP
Station Surge Protection	6 kV @ 3,000 A. In geographic areas subject to frequent thunderstorms, supplemental surge protection at the service panel is recommended.
Short Circuit Current Rating	5 kA
EMC Compliance	FCC Part 15 Class B
Operating Temperature	-40°C to 50°C (-40°F to 122°F)
Non-Operating Temperature	-40°C to 60°C (-40°F to 140°F)
Terminal Block Temperature Rating	105°C (221°F)
Operating Humidity	Up to 85% @ 50°C (122°F) non-condensing
Non-Operating Humidity	Up to 95% @ 50°C (122°F) non-condensing

Other Specifications

Weight	Wall Mount: 68 kg (150 lb)

ChargePoint, Inc. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

	Pedestal Mount: 77 kg (170 lb)
Warranty	Limited 2-Year Parts Warranty
FHWA	Buy American compliant options available

Contact Us

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Visit chargepoint.com

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N-Type Bifacial 144HC
Dual Glass

MISSION SOLAR ENERGY

580-600W
Class leading power output

Positive Power Tolerance
0 to +3%

Solar Built for the Long Haul

Mission Solar Energy is headquartered in San Antonio, Texas. This product is tailored for commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, providing excellent performance over the long term. Mission Solar Energy is a proud member of the OCI family of companies.

America's Module Company®

Fair Trade Practices
- Free of forced labor at all stages of the supply chain
- Not subject to AD/CVD tariffs or investigations

Certified Reliability
- Tested to UL 61730
- PID resistant

Advanced Technology
- SMBB Technology
- N-Type Cell
- Ideal for utility and commercial applications

Extreme Weather Resilience
- Up to 5,400 Pa front load & 2,400 Pa back load
- Tested load to UL 61730
- Hail tests results exceed 25mm at 23 m/s

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 1% in year 1 and 0.4% annually from years 2 to 30, with 87.4% guaranteed in year 30; 15-year product warrant and 30-year warranty on power output.

For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

CEC

C SA US

UL 61730

If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

www.missionsolar.com | info@missionsolar.com

Class Leading
580-600W

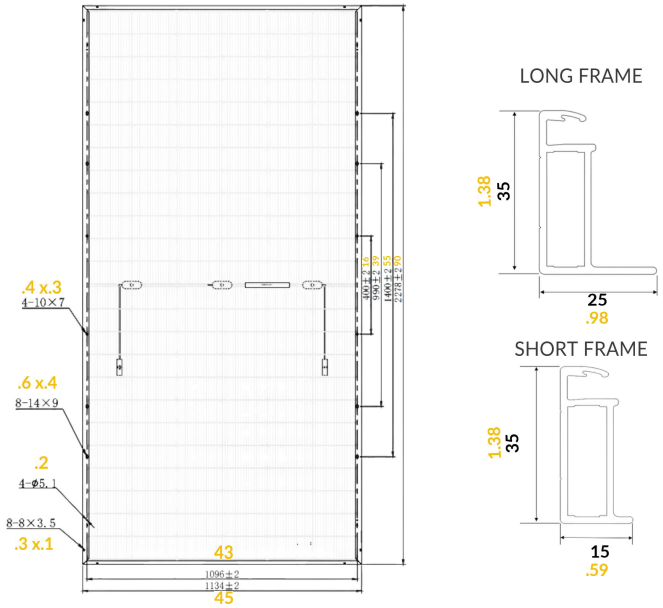
N-Type Bifacial 144HC Dual Glass

ELECTRICAL SPECIFICATION

PRODUCT TYPE	MSH10-xxxHN4G (xxx = Pmax)				
Power Output	Pmax	Wp	585	590	595
Module Efficiency		%	22.6	22.8	23
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	Isc	A	14.47	14.55	14.62
Open Circuit Voltage	Voc	V	51.5	51.7	51.85
Rated Current	Imp	A	13.53	13.59	13.67
Rated Voltage	Vmp	V	43.3	43.5	43.55
Fuse Rating		A	25	25	25
System Voltage		V	1,500	1,500	1,500

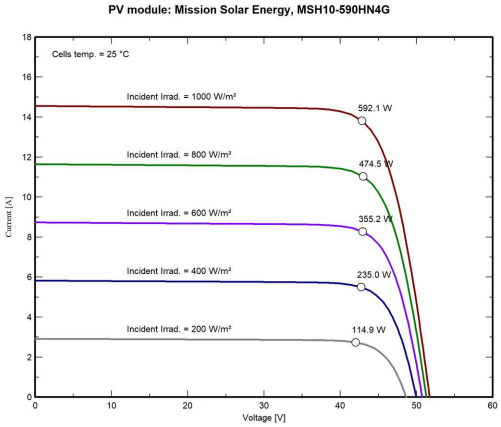
BASIC DIMENSIONS

[UNITS: MM/IN]



CURRENT-VOLTAGE CURVE

MSH10-590HN4G: 590W, 144 CELL SOLAR MODULE



ELECTRICAL SPECIFICATION (BACKSIDE)

Power Output	Pmax	Wp	445	449	453
Short Circuit Current	Isc	A	11.66	11.73	11.79
Open Circuit Voltage	Voc	V	49.4	49.6	49.8
Rated Current	Imp	A	10.7	10.77	10.82
Rated Voltage	Vmp	V	41.6	41.7	41.9

TEMPERATURE COEFFICIENTS

Nominal Module Operating Temperature (NMOT)	45°C (±2°C)
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Isc	0.046%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,500 Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	25A
Fire Safety Classification	Type 29
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 2,400 Pa back load.

MECHANICAL DATA

Solar Cells	N-type TOPCON Monocrystalline
Cell Orientation	144 cells
Module Dimension	2278 mm x 1134 mm x 35 mm
Weight	71.65 lbs. (32.5±0.5kg)
Front Glass	2.0 mm High Transmission Tempered Glass
Back Glass	2.0 mm High Transmission Tempered Glass
Frame	Anodized Aluminum Alloy
Encapsulant	Polyolefin Elastomer (POE)
Junction Box	IP 68 Rated
Cable	Wire 4 mm² (12AWG)
Connector	MC4 Compatible

SHIPPING INFORMATION

Truck Load	Ship To	Pallets	Modules	590W Bin
53'	Most States	16	496	292.64 kW

Double Stack: (Horizontal Orientation): 31 modules per pallet

PALLET [31 MODULES]

Weight	Height	Width	Length
1000 kg (2205 lbs)	49 in (1243 mm)	45 in (1145 mm)	91 in (2304 mm)

CERTIFICATIONS

CEC C SP US

UL 61730

Mission Solar Energy
8303 S. New Braunfels Ave., San Antonio, Texas
78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice.

SOLECTRIA® PVI-36TL-480-V2

3-PHASE TRANSFORMERLESS COMMERCIAL STRING INVERTERS

FEATURES

- Certified to IEEE 1547-2018 and UL 1741SB
- Wirebox models with built-in SunSpec compliant transmitters for Module-Level Rapid Shutdown for simple, safe NEC compliance
- UL Listed as a PV Rapid Shutdown System with APsmart
- Integrated UL-listed Arc-Fault protection
- 15-90° mounting angle allows low-profile rooftop installations
- 3 MPPT's with 5 inputs each for PV array flexibility
- Industry-leading DC/AC ratio of 1.7
- Integrated AC and DC disconnects
- Remote firmware upgrades and diagnostics
- NEMA 4X outdoor rated enclosure with proven performance
- Copper and Aluminum compatible AC connections
- Compatible with Bifacial PV Modules

OPTIONS

- Shade cover
- DC fuse bypass
- Web-based monitoring

Yaskawa Solectria Solar's PVI-36TL-480-V2 are transformerless 3-phase inverters, ideal for rooftops, carports and ground-mount PV systems.

The PVI-36TL-480-V2 is the new generation of 36kW transformerless inverters from Yaskawa Solectria Solar that are IEEE 1547-2018 compliant. It comes standard with AC and DC disconnects, three MPPTs, and a wiring box with 15 fuse positions.

This updated inverter is improved for rooftop PV systems. Module-Level Rapid shutdown (MLRSD) wirebox models provide PV Rapid Shutdown System (PVRSS) compliance and include a built-in SunSpec compliant powerline communication transmitter.

Rapid-shutdown-ready wireboxes provide compatibiity with APsmart rapid shutdown products.

Yaskawa Solectria Solar's PVI-36TL-480-V2 inverters, including standard wireboxes and the rapid-shutdown ready wirebox models, provides flexibility and convenience unmatched in the industry.

Standard Wirebox

- 20A fuses, both polarities
- No built-in PVRSS transmitter

Module-Level Rapid Shutdown Wireboxes

- 20A fuses; positive polarity only
- Built-in PVRSS transmitter
- Compatible with APsmart module-level rapid shutdown devices

APsmart
ALTENERGY POWER

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SOLECTRIA SOLAR

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SPECIFICATIONS

Inverter Model		PVI-36TL-480-V2
DC Input	Maximum PV Power	61.2 kW (22.4 kW per MPPT)
	Maximum Input Voltage	1000 VDC
	DC Voltage Ranges: Operating/Max. Power (MPPT)	200-950 VDC / 400-850 VDC
	Start-up DC Input Voltage/Power	330 V / 80 W
	Number of MPPT Trackers/Inputs	3 Trackers / 5 Fused-inputs each
	Maximum Available PV Current (Isc x 1.25)	204 A (68 A per MPPT)
	DC Surge Protection	Type II MOV, 2800 V_C , 20 kA I_{TM} (8/20 µs)
AC Output	Rated AC Real Power/Apparent Power/Output Current	36 kW / 36 kVA / 43.5 A
	Nominal Output Voltage/Range	480 VAC / -12% to +10%
	Nominal Output Frequency/Range	60 Hz / 57-63 Hz
	Power Factor	Unity, > 0.99 (Adjustable 0.8 leading to 0.8 lagging)
	Fault Current Contribution (1 Cycle RMS)	73.2 A (1.68 PU)
	Total Harmonic Distortion (THD) @ Rated Load	< 3%
	Grid Connection Type	3-Ph/PE/N (neutral conductor optional)
	Maximum OCPD Device	125 A
	AC Surge Protection	Type II MOV, 1500 V_C, 15 kA I_{TM} (8/20 µs)
Efficiency	Peak Efficiency	98.8%
	CEC Efficiency	97.5%
	Tare Loss	< 3 W
Environment	Ambient Temperature Range	-22°F to +140°F (-30°C to +60°C)
	Storage Temperature Range	No low temp minimum to +158°F (+70°C)
	Relative Humidity (non-condensing)	0-100%
	Operating Altitude	13,123.4 ft (4,000 m) Derating occurs from 9,842.5 ft (3,000 m)
Communications	Modbus Protocol	Proprietary / SunSpec
	SolrenView Web-Based Monitoring Service	Optional
	Revenue Grade Metering	Optional, External
	Communication Interface	RS-485 Modbus RTU
	Remote Firmware Upgrades	Ethernet Network Card required
	Remote Diagnostics	Ethernet Network Card required
Safety	Certifications and Standards	UL1741-SA/SB Ed. 3, UL1699B, CSA-C22.2 NO.107.1-01, IEEE1547-2018; FCC PART15, UL 1998
	Selectable Grid Standards	IEEE 1547-2014, IEEE 1547a-2018, CA Rule 21, ISO-NE, HECO
	Smart Grid Features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt
Warranty	Standard Limited Warranty	10 Years
Mechanical	Acoustic Noise Rating	< 60 dBA @ 1 m and 25°C
	AC/DC Disconnect	Standard, fully-integrated, load break rated
	Mounting Angle*	15° - 90° from horizontal
	Weight	Inverter: 123.5 lbs (56 kg); Wiring Box: 33 lbs (15 kg)
	Enclosure Rating and Finish	NEMA Type 4X; Polyester Powder Coated Aluminum
	Dimensions (H x W x D)	Power Head: 22.7" x 23.6" x 10.24" (576 mm x 600 mm x 260 mm)
		Wirebox: 16.7" x 23.6" x 10.24" (424 mm x 600 mm x 260 mm)
		Overall: 39.4" x 23.6" x 10.24" (1000 mm x 600 mm x 260 mm)

Wirebox Specifications			
Wirebox	Fused Inputs	15 Fused Positions (5 Positions per MPPT) 20 A Included (25, 30 A accepted)**	
Wirebox Versions	Standard	PVI-36-50-60-WB-S (both polarities fused)	No MLRSD transmitter included
	APsmart Transmitter Built-in	PVI-36-50-60-WB-AP (only positive polarity fused)	MLRSD compatitility: APsmart RSD-S and RSD-D

* Shade cover accessory required for installation of 75° or less
** Yaskawa Solectria Solar does not supply optional fuses sizes

IT'S PERSONAL

SOLECTRIA®
PVI-50TL-480 / PVI-60TL-480

3-PHASE TRANSFORMERLESS COMMERCIAL STRING INVERTERS

FEATURES

- Certified to IEEE 1547-2018 and UL 1741SB
- Dual rated listing allows selection of either 50/60 kVA (factory default) or 55/66 kVA (allowing full rated power down to ±0.91 PF)
- Wirebox models with built-in SunSpec compliant transmitters for Module-Level Rapid Shutdown for simple, safe NEC compliance
- UL Listed as a PV Rapid Shutdown System with APsmart
- Integrated UL-listed Arc-Fault protection
- 15-90° mounting angle allows low-profile rooftop installations
- 3 MPPT's with 5 inputs each for PV array flexibility
- Industry-leading DC/AC ratio of 1.8 (50TL) and 1.5 (60TL)
- Integrated AC and DC disconnects
- Remote firmware upgrades and diagnostics
- NEMA 4X outdoor-rated enclosure with proven performance
- Copper and Aluminum compatible AC connections
- Compatible with Bifacial PV Modules

OPTIONS

- Shade cover
- DC fuse bypass
- Web-based monitoring

Yaskawa Solectria Solar's PVI-50TL-480 and PVI-60TL-480 are transformerless 3-phase inverters, ideal for rooftops, carports and ground-mount PV systems

The PVI-50TL-480 and PVI-60TL-480 come standard with AC and DC disconnects, three MPPTs, and a wiring box with 15 fuse positions.

For rooftop PV systems, both Module-Level Rapid shutdown (MLRSD) wirebox models provide PV Rapid Shutdown System (PVRSS) compliance and include a built-in SunSpec compliant powerline communication transmitter.

Rapid-shutdown-ready wireboxes provide compatibiity with APsmart rapid shutdown products.

Yaskawa Solectria Solar's family of PVI-50/60TL-480 inverters, including standard wireboxes and the rapid-shutdown ready wirebox models, provides flexibility and convenience unmatched in the industry.

Standard Wirebox

- 20A fuses, both polarities
- No built-in PVRSS transmitter

Module-Level Rapid Shutdown Wireboxes

- 20A fuses; positive polarity only
- Built-in PVRSS transmitter
- Compatible with APsmart module-level rapid shutdown devices

APsmart
ALTENERGY POWER

YASKAWA
SOLECTRIA SOLAR

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SPECIFICATIONS

Inverter Model (Listing File Name)		PVI-50TL-480 (PVI 50TL-480)	PVI-60TL-480 (PVI 60TL-480)
DC Input	Maximum PV Power	90 kW (33 kW per MPPT)	90 kW (33 kW per MPPT)
	Maximum Input Voltage	1000 VDC	1000 VDC
	Dc Voltage Ranges: Operating/Max. Power (MPPT)	200-950 VDC / 480-850 VDC	200-950 VDC / 540-850 VDC
	Start-up DC Input Voltage/Power	330 V / 80 W	330 V / 80 W
	Number of MPPT Trackers/Inputs	3 Trackers / 5 Fused-inputs each	3 Trackers / 5 Fused-inputs each
	Maximum Available PV Current (Isc x 1.25)	204 A (68 A per MPPT)	204 A (68 A per MPPT)
	Maximum Operating Input Current (clipping point)	108 A (36 A per MPPT)	114 A (38 A per MPPT)
	DC Surge Protections	Type II MOV, 2800 V_C , 20 kA I_{TM} (8/20 µs)	
AC Output	Rated AC Real Power/Apparent Power/Output Current	50 kW / 50 kVA / 60.2 A	60 kW 60kVA / 72.2 A
	Overhead Mode: Real Power/Apparent Power/Output Current	50 kW / 55 kVA / 66.2 A	60 kW / 66 kVA / 79.4 A
	Nominal Output Voltage/Range	480 VAC / -12% to +10%	480 VAC / -12% to +10%
	Nominal Output Frequency/Range	60 Hz / 57-63 Hz	60 Hz / 57-63 Hz
	Power Factor	Unity, >0.99 (Adjustable 0.8 leading to 0.8 lagging)	Unity, >0.99 (Adjustable 0.8 leading to 0.8 lagging)
	Fault Current Contribution (1 Cycle RMS)	64.1 A	64.1 A
	Total Harmonic Distortion (THD) @ Rated Load	< 3%	< 3%
	Grid Connection Type	3-Ph/PE/N (neutral conductor optional)	3-Ph/PE/N (neutral conductor optional)
	Maximum OCPD Device	110 A	125 A
	AC Surge Protection	Type II MOV, 1240 V_C , 15 kA I_{TM} (8/20 µs)	
Efficiency	Peak Efficiency	98.8%	98.8%
	CEC Efficiency	98.5%	98.5%
	Tare Loss	< 1 W	< 1 W
Environment	Ambient Temperature Range	-22°F to +140°F (-30°C to +60°C); Derating occurs over +113°F (+45°C)	
	Storage Temperature Range	No low temp minimum to +158°F (+70°C)	
	Relative Humidity (non-condensing)	0-100%	
	Operating Altitude	13,123 ft (4,000 m) Derating occurs from 9,842.5 ft (3,000 m)	
Communications	Modbus Protocol	Proprietary / SunSpec	
	SolrenView Web-Based Monitoring Service	Optional	
	Revenue Grade Metering	Optional, External	
	Communication Interface	RS-485 Modbus RTU	
	Remote Firmware Upgrades	Ethernet Network Card required	
	Remote Diagnostics	Ethernet Network Card required	
Safety	Certifications and Standards	IEEE 1547-2018, UL 1741-SB, UL 1741SA-2016, UL1699B, UL1998, CSA-C22.2 No. 107.1-01, FCC Part 15 (Subpart B, Class A)	
	Selectable Grid Standards	IEEE 1547, CA Rule 21, ISO-NE, HECO	
	Smart Grid Features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAr, Freq-Watt, Volt-Watt, Watt-VAr	
Warranty	Standard Limited Warranty	10 Years	
Mechanical	Acoustic Noise Rating	< 60 dBA @ 1 m and 25°C	
	AC/DC Disconnect	Standard, fully-integrated, load break rated	
	Mounting Angle*	15° - 90°◦ from horizontal	
	Weight	Inverter: 123.5 lbs (56 kg); Wiring Box: 33 lbs (15 kg)	
	Enclosure Rating and Finish	NEMA Type 4X; Polyester Powder Coated Aluminum	
	Dimensions (H x W x D)	Power Head: 22.7" x 23.6" x 10.24" (576 mm x 600 mm x 260 mm)	
		Wirebox: 16.7" x 23.6" x 10.24" (424 mm x 600 mm x 260 mm)	
		Overall: 39.4" x 23.6" x 10.24" (1000 mm x 600 mm x 260 mm)	

Wirebox Specifications			
Wirebox	Fused Inputs	15 Fused Positions (5 Positions per MPPT) 20 A Standard (25, 30 A accepted)**	
Wirebox Version	Standard	PVI-50-60TL-BX-S20 (both polarities fused), No MLRSD transmitter needed	
	APsmart Transmitter Built-in	PVI-50-60TL-WB-APS (only positive polarity fused)	MLRSD compatitility: APsmart RSD-S and RSD-D

* Shade cover accessory required for installation of 75° or less
** Yaskawa Solectria Solar does not supply optional fuses sizes

IT'S PERSONAL

YASKAWA SOLECTRIA SOLAR

SOLECTRIA® XGI 1500-166 SERIES

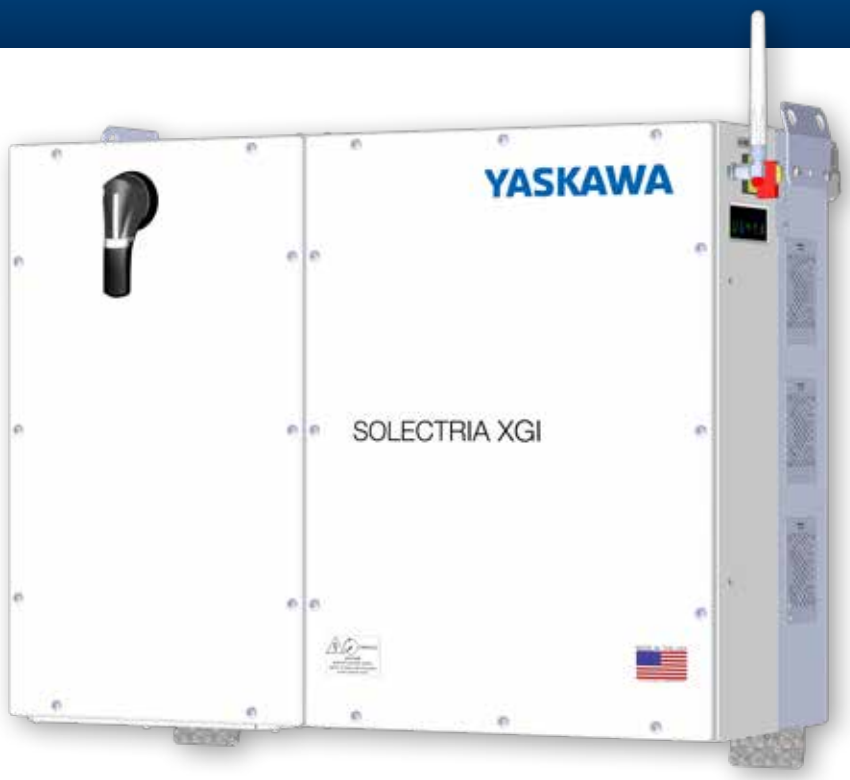
PREMIUM 3-PHASE TRANSFORMERLESS UTILITY-SCALE INVERTERS

FEATURES

- Made in the USA with global components
- Buy American Act (BAA) compliant
- Four models:
  - 125kW/125kVA,
  - 125kW/150kVA,
  - 150kW/166kVA,
  - 166kW/166kVA
- Additional models available certified to UL1699b, Photovoltaic DC Arc-Fault Circuit Protection
- 99.0% peak efficiency
- Flexible solution for distributed and centralized system architecture
- Advanced grid-support functionality Rule 21/UL1741SB
- Robust, dependable, & built to last
- Lowest O&M and installation costs
- Access all inverters on site via WiFi from one location
- Remote diagnostics and firmware upgrades
- SunSpec Modbus Certified

OPTIONS

- String combiners for distributed and centralized systems
- Web-based monitoring
- Extended warranty



Yaskawa Solectria Solar's XGI 1500 utility-scale string inverters are designed for high reliability and built of the highest quality components that were selected, tested and proven to last beyond their warranty.

XGI 1500 inverters provide advanced grid-support functionality and meet the latest IEEE 1547 and UL1741SB standards for safety. They are the most powerful 1500 VDC string inverters in the PV market and have been engineered for both distributed and centralized system architecture.

Designed and engineered in Lawrence, MA, XGI inverters are assembled and tested at Yaskawa America's facilities in Buffalo Grove, IL. They are Made in the USA with global components and are compliant with the Buy American Act.

SPECIFICATIONS

PRODUCT SPECIFICATION		XGI 1500 INVERTER MODEL			
		XGI 1500-125/125-UL XGI 1500-125/125-UL-A	XGI 1500-125/150-UL XGI 1500-125/150-UL-A	XGI 1500-150/166-UL XGI 1500-150/166-UL-A	XGI 1500-166/166-UL XGI 1500-166/166-UL-A
DC Input	Absolute Max Input Voltage	1500 VDC	1500 VDC	1500 VDC	1500 VDC
	Max Power Input Voltage Range (MPPT)	860-1250 VDC	860-1250 VDC	860-1250 VDC	860-1250 VDC
	Operating Voltage Range (MPPT)	860-1450 VDC	860-1450 VDC	860-1450 VDC	860-1450 VDC
	Number of MPP Trackers	1 MPPT	1 MPPT	1 MPPT	1 MPPT
	Max Operating Input Current	148.3 A	148.3 A	178.0 A	197.7 A
	Max Operating PV Power	128 kW	128 kW	153 kW	170 kW
	Max DC/AC Ratio | Max Rated PV Power	2.6 | 332 kW	2.6 | 332 kW	2.2 | 332 kW	2.0 | 332 kW
	Max Rated PV Short-Circuit Current (∑Isc x 1.25)	500 A	500 A	500 A	500 A
AC Output	Nominal Output Voltage	600 VAC, 3-Ph	600 VAC, 3-Ph	600 VAC, 3-Ph	600 VAC, 3-Ph
	AC Voltage Range	-12% to +10%	-12% to +10%	-12% to +10%	-12% to +10%
	Continuous Real Output Power	125 kW	125 kW	150 kW	166 kW
	Continuous Apparent Output Power	125 kVA	150 kVA	166 kVA	166 kVA
	Max Output Current	120 A	144 A	160 A	160 A
	Nominal Output Frequency	60 Hz	60 Hz	60 Hz	60 Hz
	Power Factor (Unity default)	+/- 0.80 Adjustable	+/- 0.80 Adjustable	+/- 0.80 Adjustable	+/- 0.80 Adjustable
	Total Harmonic Distortion (THD) @ Rated Load	<3%	<3%	<3%	<3%
	Grid Connection Type	3-Ph + N/GND	3-Ph + N/GND	3-Ph + N/GND	3-Ph + N/GND
	Fault Current Contribution (1 cycle RMS)	144 A	173 A	192 A	192 A
Efficiency	Peak Efficiency	98.9%	98.9%	99.0%	99.0%
	CEC Average Efficiency	98.5%	98.5%	98.5%	98.5%
	Tare Loss	2.75 W	2.75 W	2.75 W	2.75 W
Temperature	Ambient Temp Range	-40°F to 140°F (-40C to 60C)		-40°F to 140°F (-40C to 60C)	
	De-Rating Temperature	122°F (50C)		113°F (45C)	
	Storage Temperature Range	-40°F to 167°F (-40C to 75C)		-40°F to 167°F (-40C to 75C)	
	Relative Humidity (non-condensing)	0 - 95%		0 - 95%	
	Operating Altitude	Full Power up to 9,840 ft (3.0 km); De-Rate to 70% of Full Power at 13,123 ft (4.0 km)			
Communications	Advanced Graphical User Interface	WiFi			
	Communication Interface	Ethernet			
	Third-Party Monitoring Protocol	SunSpec Modbus TCP/IP			
	Web-Based Monitoring	Optional			
	Firmware Updates	Remote and Local			
Testing & Certifications	Safety Listings & Certifications	UL1741SB, IEEE 1547, UL 1699b Photovoltaic Arc-Fault Circuit Protection Certified (-A models)			
	Advanced Grid Support Functionality	Rule 21, UL 1741SB			
	Testing Agency	ETL			
	FCC Compliance	FCC Part 15 (Subpart B, Class A)			
Warranty	Standard and Options	5 Years Standard; Option for 10 Years			
Enclosure	Acoustic Noise Rating	73 dBA @ 1 m ; 67dBA @ 3 m			
	DC Disconnect	Integrated 2-Pole 250 A DC Disconnect			
	Mounting Angle	Vertical only			
	Dimensions	Height: 29.5 in. (750 mm) | Width: 39.4 in. (1000 mm) | Depth: 15.1 in. (380 mm)			
	Weight	270 lbs (122 kg)			
	Enclosure Rating and Finish	Type 4X, Polyester Powder-Coated Aluminum			

IT'S PERSONAL

City Council

STAFF REPORT

Document ID: 2026-359
Category: Action Item

Department:	Finance
Department Head:	Victor Manriquez, Finance Director
Meeting Date:	June 17, 2026

SUBJECT:

POSTPONE PUBLIC HEARING ON LEVIES FOR LIGHTING AND LANDSCAPE DISTRICTS TO THE NEXT REGULAR CITY COUNCIL MEETING ON JULY 1, 2026.

BACKGROUND:

On June 3, 2026, the City Council approved resolutions for Intention to Conduct Public Hearings for the Lighting and Landscape Districts to be held on June 17, 2026. Staff requests to postpone the public hearings to the next regular City Council meeting on July 1, 2026, to allow completion of the required legal notices.

FISCAL IMPACT:

None.

REQUESTED ACTION:

Adopt Resolution No. 2026-43, AUTHORIZING POSTPONEMENT OF PUBLIC HEARINGS ON LEVIES FOR LIGHTING AND LANDSCAPE DISTRICTS (SKY RANCH, WILDFLOWER AND PASEO DEL SOL) TO THE NEXT REGULAR CITY COUNCIL MEETING ON JULY 1, 2026.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Resolution No. 2026-43 Postpone PH on LLDs

RESOLUTION NO. 2026-43

RESOLUTION OF THE CITY COUNCIL FOR THE CITY OF IMPERIAL, CALIFORNIA, AUTHORIZING POSTPONEMENT OF PUBLIC HEARINGS ON LEVIES FOR LIGHTING AND LANDSCAPE DISTRICTS TO THE NEXT REGULAR CITY COUNCIL MEETING ON JULY 1, 2026.

WHEREAS, on June 3, 2026 the City Council approved resolutions for Intention to Conduct Public Hearings for the Lighting and Landscape Districts to be held on June 17, 2026, and

WHEREAS, the Public Hearings will be postponed to the next regular scheduled City Council meeting to be held on July 20, 2026, to allow completion of the required legal notices.

NOW, THEREFORE, THE COUNCIL OF THE CITY OF IMPERIAL DOES HEREBY FIND, RESOLVE, DETERMINE, AND ORDER AS FOLLOWS:

Section 1. Public Hearings to Approve the Engineer's Report for Sky Ranch, Wildflower, and Paseo del Sol Maintenance Districts are continued to July 1, 2026.

Section 2. Public Hearings for Ordering the Levy and Collection of Annual Assessments for Sky Ranch, Wildflower, and Paseo del Sol Districts are continued to July 1, 2026.

PASSED, ADOPTED, AND APPROVED by the City Council of the City of Imperial, this 17th day of June, 2026.

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

I, Kristina Shields, City Clerk of the City of Imperial, California, hereby certify that the foregoing Resolution No. 2026-43 was duly adopted at a meeting of the Imperial City Council at its meeting held on the 17th day of June, 2026, by the following vote:

AYES:
NOES:
ABSENT:
ABSTAIN:

IN WITNESS WHEREOF, I hereunto set my hand and affixed the official seal of the City of Imperial, California, on June 17, 2026.

_____
Kristina Shields, City Clerk

City Council
STAFF REPORT
Document ID: 2026-330
Category: Resolution

Department:	City Clerk's Office
Department Head:	Dennis H. Morita, City Manager
Meeting Date:	June 17, 2026

SUBJECT:

APPROVE RESOLUTIONS FOR THE 2026 GENERAL MUNICIPAL ELECTION.

BACKGROUND:

General Municipal Elections in the City of Imperial are held in November of even-numbered years. The next election will take place on November 3, 2026, to elect three (3) Members of the City Council for the full term of four (4) years and a City Clerk for the full term of four (4) years.

City staff is proposing several resolutions related to the upcoming General Municipal Election. These include placing an initiative measure on the ballot to repeal or reduce Mello-Roos CFD taxes within Mayfield CFD 2004-2, requesting that the Board of Supervisors consolidates the election with the Statewide General Election, and establishing priorities for submitting written arguments and rebuttal arguments for the measure. To move forward with the election, the City Council must adopt these resolutions.

FISCAL IMPACT:

REQUESTED ACTION:

Approve and Adopt the following resolutions:
Resolution No. 2026-35, CALLING FOR THE HOLDING OF A GENERAL MUNICIPAL ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026 FOR THE ELECTION OF CERTAIN OFFICERS AS REQUIRED BY THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA RELATING TO GENERAL LAW CITIES

Resolution No. 2026-36, REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF IMPERIAL TO CONSOLIDATE A GENERAL MUNICIPAL ELECTION TO BE HELD ON NOVEMBER 3, 2026, WITH THE STATEWIDE GENERAL ELECTION

TO BE HELD ON THE DATE PURSUANT TO § 10403 OF THE ELECTIONS CODE

Resolution No. 2026-37, ADOPTING REGULATIONS FOR CANDIDATES FOR ELECTIVE OFFICE PERTAINING TO CANDIDATES STATEMENTS SUBMITTED TO THE VOTERS AT AN ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026

Resolution No. 2026-39, SETTING PRIORITIES FOR FILING A WRITTEN ARGUMENT(S) REGARDING A CITY MEASURE AND DIRECTING THE CITY ATTORNEY TO PREPARE AN IMPARTIAL ANALYSIS

Resolution No. 2026-40, PROVIDING FOR THE FILING OF REBUTTAL ARGUMENTS FOR CITY MEASURES SUBMITTED AT MUNICIPAL ELECTIONS

CITY MANAGER RECOMMENDATION:

Approve as requested.

Attachments:

1. Resolution No. 2026-35 Calling Election with Measures
2. Resolution No. 2026-36_Consolidating
3. Resolution No. 2026-37_Candidate Statements
4. Resolution No. 2026-39_Written Arguments
5. Resolution No. 2026-40_Filing Rebuttals

RESOLUTION NO. 2026-35

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, CALLING FOR THE HOLDING OF A GENERAL MUNICIPAL ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026 FOR THE ELECTION OF CERTAIN OFFICERS AS REQUIRED BY THE PROVISIONS OF THE LAWS OF THE STATE OF CALIFORNIA RELATING TO GENERAL LAW CITIES AND FOR THE SUBMISSION TO THE VOTERS A QUESTION RELATING COMMUNITY FACILITIES DISTRICT 2004-2.

WHEREAS, under the provisions of the laws relating to general law cities in the State of California, a General Municipal Election shall be held on Tuesday, November 3, 2026 for the election of Municipal Officers.

WHEREAS, the City Council also desires to submit to the voters at the election questions relating to an initiative measure to repeal or reduce Mello-Roo Community Facilities District No. 2004-2 upon satisfaction of outstanding obligations.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, DOES RESOLVE, DECLARE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1. That pursuant to the requirements of the laws of the State of California relating to General Law Cities, there is called and ordered to be held in the City of Imperial, California, on Tuesday, November 3, 2026 a General Municipal Election for the purpose of electing three (3) Members of the City Council for the full term of four years and a City Clerk for the full term of four years.

SECTION 2. That the City Council, pursuant to its right and authority, does order submitted to the voters at the General Municipal Election the following question(s):

"Shall the measure, placed on the ballot by initiative, which seeks to repeal or reduce Mello-Roos Community Facilities District (CFD)_taxes within City of Imperial Community Facilities District No. 2004-2 upon satisfaction of all outstanding obligations, be adopted?	YES _____ NO _____

SECTION 3. That the proposed complete text of the measure submitted to the voters is attached as Exhibit A.

SECTION 4. That the vote requirement for the measure to pass is a majority (50%+1) of the votes cast.

SECTION 5. That the ballots to be used at the election shall be in form and content as required by law.

SECTION 6. That the City Clerk is authorized, instructed and directed to coordinate with the County of Imperial Registrar of Voters to procure and furnish any and all official ballots, notices, printed matter and all supplies, equipment and paraphernalia that may be necessary in order to property and lawfully conduct the election.

SECTION 7. That the polls for the election shall be open at seven o'clock a.m. of the day of the election and shall remain open continuously from that time until eight o'clock p.m. of the same day when the polls shall be closed, pursuant to Election Code § 10242 except as provided in § 14401 of the Elections Code of the State of California.

SECTION 8. That in all particulars not recited in this resolution, the election shall be held and conducted as provided by law for holding municipal elections.

SECTION 9. That notice of the time and place of holding the election is given and the City Clerk is authorized, instructed and directed to give further or additional notice of the election, in time, form and manner as required by law.

SECTION 10. That in the event of a tie vote (if any two or more persons receive an equal and the highest number of votes for an office) as certified by the Election Official, County of Imperial, the City Council in accordance with Election Code § 15651 shall set a date and time and place and summon the candidates who have received the tie votes to appear and will determine the tie by lot.

SECTION 11. That the City Clerk shall certify to the passage and adoption of this Resolution and enter it into the book of original Resolutions.

SECTION 12. The City Council authorizes the City clerk to administer said election and all reasonable and actual election expenses shall be paid by the City upon presentation of a properly submitted bill.

SECTION 13. Additional Actions. The City Manager and City Clerk are hereby authorized and directed to take all necessary and appropriate steps to place the measure on the ballot. The city may recover the costs of the elections and related procedures to place the measure on the ballot from the proceeds of such Community Facilities District as an ~~incidental~~ expense of the CFD. The City Council hereby amends Exhibit "B" of Resolution No. 2026-14 to clarify that the election expenses set forth in this section are permissible costs of the operation and maintenance of the CFD 2004-2.

PASSED, APPROVED AND ADOPTED ON June 17, 2026.

_____

Ida Obeso-Martinez, Mayor

ATTEST:

_____

Kristina Shields, City Clerk

The City Attorney of the City of Imperial has prepared the following title and summary of the chief purpose and points of the proposed initiative:

Ballot Initiative 1

Cessation of Community Facilities District No. 2004-2 Improvement Area 1 Special Taxes Upon Full Payment of Outstanding Bond Indebtedness

Summary of the Proposed Initiative:

Proponents within the City of Imperial Community Facilities District No. 2004-2 Improvement Area 1 ("Improvement Area 1") have proposed an initiative to repeal all special taxes assessed within Improvement Area 1, upon the complete satisfaction of the outstanding bonded indebtedness associated with Improvement Area 1. The initiative includes several sections.

Section 1 of the initiative is the title.

Section 2 of the initiative contains several findings and the proponents' stated purpose for the initiative.

Section 3 of the initiative would seek to require the legislative body of the City of Imperial Community Facilities District No. 2004-2 to pay the outstanding bonded indebtedness and, upon full payment of the outstanding bonded indebtedness, to adopt a resolution repealing the special tax levy in its entirety.

Section 4 of initiative would seek to require the legislative body of the City of Imperial Community Facilities District No. 2004-2 to retroactively waive already accrued penalties and interest on delinquent special tax payments.

Section 5 of the initiative would seek to require the legislative body of the City of Imperial Community Facilities District No. 2004-2 to take all steps necessary to ensure that the collection of the special tax ceases upon full payment of the outstanding bonded indebtedness.

Section 6 of the initiative includes severability provision, which means that if any provision of the initiative is held to be invalid, the remaining provisions of the initiative shall remain in full force and effect, if the initiative is adopted by the voters.

Section 7 of the initiative states that, if the initiative is adopted by the voters, the initiative shall become effective upon certification of the election results.

Word count: 271 words (500 max)

RESOLUTION NO. 2026-14

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL ACTING AS THE LEGISLATIVE BODY FOR THE CITY OF IMPERIAL COMMUNITY FACILITIES DISTRICT NO. 2004-2 (MAYFIELD) SUBMITTING TO THE QUALIFIED VOTERS OF THE DISTRICT AN INITIATIVE MEASURE TO REPEAL OR REDUCE MELLO-ROOS COMMUNITY FACILITIES DISTRICT (CFD) TAXES WITHIN CITY OF IMPERIAL COMMUNITY FACILITIES DISTRICT NO. 2004-02 UPON SATISFACTION OF OUTSTANDING OBLIGATIONS

WHEREAS, the City Council ("City Council") of the City of Imperial (the "City") is the legislative body of Community Facilities District No. 2004-2 (Mayfield) (the "District"), which District was established pursuant to the provisions of the Mello-Roos Community Facilities Act of 1982, as amended, being Chapter 2.5, Part 1, Division 2, Title 5 of the Government Code of California; and

WHEREAS, pursuant to authority provided by the California Elections Code, an initiative petition (the "Petition") has been filed with the City Council, acting as the legislative body for the District, seeking to enact an ordinance (the "Measure") that would repeal the special tax levied by the District when it adopted Resolution No. 2004-48 on August 4, 2004; and

WHEREAS, pursuant to Elections Code section 9310, an initiative petition must be filed with the District in valid form and signed by not less than ten percent (10%) of the registered voters within the District in order to qualify the initiative for the ballot; and

WHEREAS, the City Clerk, acting as the Secretary of the District has certified that the form of the Petition complies with California law and has ascertained that the Petition is signed by the requisite number of voters to qualify for ballot under the Elections Code; and

WHEREAS, pursuant to California Elections Code section 9310; the City Council is required to either:

i. Adopt the ordinance, without alteration, either at the regular meeting at which the certification of the petition is presented, or within 10 days after it is presented; or

ii. Submit the ordinance without alteration, to the voters pursuant to Elections Code section 1405.

WHEREAS, the City Council has not voted to adopt the Measure as an ordinance without alteration; and

WHEREAS, Elections Code section 1405 provides that the election for a district initiative that qualifies pursuant to Elections Code section 9310 shall be held at the jurisdiction's next regular election occurring not less than 88 days after the date of the order of the election; and

WHEREAS, the next regular election is the City's General Municipal Election to be held on Tuesday, November 3, 2026; and

WHEREAS, the specific terms of the Measure are attached hereto as Exhibit "A" and by this reference made an operative part hereof, and in accordance with all applicable laws.

NOW, THEREFORE, the City Council, acting in its capacity as the legislative body of the District, does hereby resolve, determine, and order as follows:

SECTION 1. Recitals. The City Council hereby finds and determines that the foregoing recitals are true and correct, and are incorporated herein and by this reference are made an operative part hereof.

SECTION 2. Submission of Ballot Measure. The City Council of the City, pursuant to its authority as contained in California Elections Code sections 1100 and 1405, hereby orders the Measure attached hereto as Exhibit "A" to be submitted to the qualified voters of the District at the next General Municipal Election to be held on November 3, 2026.

SECTION 3. Ballot Measure Question. The City Council, pursuant to its right and authority, does hereby order that the ballot question for the Measure shall be presented and printed upon the ballot submitted to the qualified voters in the manner and form set forth in this Section 3 on the ballot to be submitted to the qualified voters at the Election to be held on Tuesday, November 3, 2026, in addition to any other matters required by law, there shall be printed substantially the following ballot question:

"Shall the measure, placed on the ballot by initiative, which seeks to repeal or reduce Mello-Roos Community Facilities District (CFD)_taxes within City of Imperial Community Facilities District No. 2004-2 upon satisfaction of all outstanding obligations, be adopted?	YES _____ NO _____

SECTION 4. Election Procedures.

A. The ballots to be used at the election shall be in the form and content as required by law.

B. Pursuant to the provisions of section 10002 of the Elections Code, the City Council requests the Bord of Supervisors of Imperial County to permit the County Registrar of Voters to render all required services to the City of Imperial to conduct the election for the Measure, as appropriate, including but not limited to: making such publications as required by law in connection therewith; the establishment of precincts, polling places, voting centers and election officers; the establishment of ballot drop boxes, the preparation, printing, mailing and furnishing of sample and vote-by-mail ballots and other necessary supplies or materials to conduct the election; the canvassing of the returns of the election and the furnishing of the results of such canvassing to the City Clerk's Office of the City of Imperial; and the performance of such other election services as may be requested by the City Clerk.

C. The City of Imperial recognizes additional costs will be incurred by the County by reason for this request for services and agrees to reimburse the County for any costs.

D. The City Clerk and/or Assistant City Clerk is authorized, instructed and directed to procure and furnish, or cause to be procured and furnished through the County of Imperial, any and all official ballots, notices, printed matter and all supplies, equipment and paraphernalia that may be necessary in order to properly and lawfully conduct the election.

E. In all particulars not recited in this Resolution, the election shall be held and conducted as provided by law for holding municipal elections in the City.

F. Notice of the time and place of holding the election is given and the City Clerk and/or Assistant City Clerk is authorized, instructed and directed to give further or additional notice of the election, in time, form, and manner as required by law.

G. The Imperial County Registrar of Voters is hereby authorized to canvass the returns of said election.

H. The City Clerk and/or Assistant City Clerk shall receive the canvass from the County as it pertains to the election on the Petition, and shall certify the results to the City Council, as required by law.

SECTION 5. Arguments and Impartial Analysis.

A. Pursuant to Elections Code section 9313, the City Council directs the City Clerk's Office to transmit a copy of the Measure to the county counsel, who shall prepare an impartial analysis of the measure showing the effect of the measure on the existing law and the operation of the measure. The analysis shall include a statement indicating whether the measure was placed on the ballot by a petition signed by the requisite number of voters or by the governing body of the district. The analysis shall be printed preceding the arguments for and against the measure. The analysis shall not exceed 500 words in length.

B. The filing of written argument in favor or in opposition to the Measure shall be prepared and filed pursuant to the requirements of Elections Code section 9315. In order to permit the 10-calendar-day public examination period and allow for the time reasonably necessary to prepare and print the arguments and voter information guides, the arguments for and against the Measure shall be filed with the Imperial City Clerk's Office by **5:00 p.m. on July 27, 2026**, after which time no arguments for or against the Measure may be submitted. Arguments in favor or against the Measure shall not exceed 300 words in length and shall comply with the requirements of Elections Code section 9315.

C. The filing of written rebuttals to arguments made in favor or in opposition to the Measure shall be prepared and filed pursuant to the requirements of Elections Code section 9317. Rebuttal arguments shall be filed with the Imperial City Clerk's Office by **5:00 p.m. on August 6, 2026.** Rebuttal arguments shall not exceed 250 words in length and shall comply with the requirements of Elections Code section 9317. Each rebuttal argument shall immediately follow the direct argument which it seeks to rebut.

D. The provisions of this Section 5 herein shall only apply to the general municipal election to be held on Tuesday, November 3, 2026.

SECTION 6. Placement on the Ballot. The full text of the Measure shall be printed in the voter information guide, and a statement shall be printed in the ballot pursuant to Elections Code section 9313 advising voters that they may obtain a copy of the Measure at no cost, upon request made to the City Clerk.

SECTION 7. Delivery of Resolution to County. The City Council directs the City Clerk to deliver copies of this Resolution, including the Measure attached hereto as Exhibit "A", to the Clerk of the Board of Supervisors of Imperial County and to the Registrar of Voters of Imperial County.

SECTION 8. Public Examination. Pursuant to Elections Code section 9380, the Measure will be available for public examination for no fewer than ten (10) calendar days prior to being submitted for printing in the voter information guide. The Clerk shall post notice in the Clerk's office of the specific dates that the examination period will run.

SECTION 9. Severability. If any provisions of this Resolution of the application thereof to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of then Resolution which can be given effect without the invalid provision or application, and to this end the provision of this Resolution are severable. The City Council hereby declares that it would have adopted this Resolution irrespective of the invalidity of any particular portion thereof.

PASSED, APPROVED, and ADOPTED by the City Council of the City of Imperial, acting as the legislative body of Community Facilities District 2004-02 (Mayfield) on this 15th day of April, 2026.

Katie B

KATHERINE BURNWORTH,
COUNCIL MEMBER

ATTEST:

KRISTINA SHIELDS, CITY CLERK
CITY OF IMPERIAL

I, Kristina Shields, City Clerk of the City of Imperial, California, hereby certify that the foregoing Resolution No. 2026-14 was duly adopted at a meeting of the Imperial City Council at its meeting held on the 15th day of April 2026, by the following vote:

AYES:	Amparano, Burnworth, Tucker
NOES:	None
ABSENT:	Mendoza, Obeso-Martinez
ABSTAIN:	None

IN WITNESS WHEREOF, I hereunto set my hand and affixed the official seal of the City of Imperial, California, on April 15, 2026.

KRISTINA SHIELDS, CITY CLERK
CITY OF IMPERIAL

RESOLUTION NO. 2026-36

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, REQUESTING THE BOARD OF SUPERVISORS OF THE COUNTY OF IMPERIAL TO CONSOLIDATE A GENERAL MUNICIPAL ELECTION TO BE HELD ON NOVEMBER 3, 2026, WITH THE STATEWIDE GENERAL ELECTION TO BE HELD ON THE DATE PURSUANT TO § 10403 OF THE ELECTIONS CODE

WHEREAS, the City Council of the City of Imperial called a General Municipal Election to be held on November 3, 2026 for the purpose of the election of three (3) Members of the City Council and a City Clerk; and

WHEREAS, it is desirable that the General Municipal Election be consolidated with the Statewide General Election to be held on the same date and that within the city the precincts, polling places and election officers of the two elections be the same, and that the county election department of the County of Imperial canvass the returns of the General Municipal Election and that the election to held in all respects as if there were only one election.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL DOES RESOLVE, DECLARE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1. That pursuant to the requirements of § 10403 of the Elections Code, the Board of Supervisors of the County of Imperial is hereby requested to consent and agree to the consolidation of a General Municipal Election with the Statewide General Election on Tuesday, November 3, 2026, for the purpose of the election of three (3) Members of the City Council and a City Clerk.

SECTION 2. That the county election department is authorized to canvass the returns of the General Municipal Election. The election shall be held in all respects as if there were only one election, and only one form of ballot shall be used. The election will be held and conducted in accordance with the provisions of law regulating the statewide or special election.

SECTION 3. That the Board of Supervisors is requested to issue instructions to the county election department to take any and all steps necessary for the holding of the consolidated election.

SECTION 4. That the City of Imperial recognizes that additional costs will be incurred by the County by reason of this consolidation and agrees to reimburse the County for any costs.

SECTION 5. That the City Clerk is hereby directed to file a certified copy of this resolution with the Board of Supervisors and the county election department of the County of Imperial.

SECTION 6. That the City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED, AND ADOPTED ON June 17, 2026.

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

RESOLUTION NO. 2026-37

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, ADOPTING REGULATIONS FOR CANDIDATES FOR ELECTIVE OFFICE PERTAINING TO CANDIDATES' STATEMENTS SUBMITTED TO THE VOTERS AT AN ELECTION TO BE HELD ON TUESDAY, NOVEMBER 3, 2026.

WHEREAS, § 13307 of the Elections Code of the State of California provides that the governing body of any local agency adopt regulations pertaining to materials prepared by any candidate for a municipal election, including costs of the candidate's statement.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA DOES HEREBY RESOLVE, DECLARE, DETERMINE AND ORDER AS FOLLOWS:

SECTION 1. GENERAL PROVISIONS. That pursuant to § 13307 of the Elections Code of the State of California, each candidate for elective office to be voted for at an Election to be held in the City of Imperial on November 3, 2026 may prepare a candidate's statement on an appropriate form provided by the City Clerk. The statement may include the name, age and occupation of the candidate and a brief description of no more than 200 words of the candidate's education and qualifications expressed by the candidate himself or herself. The statement shall not include party affiliation of the candidate, nor membership or activity in partisan political organizations. The statement shall be filed in typewritten form in the office of the City Clerk at the time the candidate's nomination papers are filed. The statement may be withdrawn, but not changed, during the period for filing nomination papers and until 6:00 p.m. of the next working day after the close of the nomination period.

SECTION 2. FOREIGN LANGUAGE POLICY.

A. Pursuant to the Federal Voting Rights Act, candidates statements will be translated into all languages required by the County of Imperial. The County is required to translate candidate's statements into the following languages: Spanish
B. The County will print and mail voter information guides and candidates statements to all voters in English and Spanish.

SECTION 3. PAYMENT.

A. Translations
    1. The candidate shall be required to pay for the cost of translating the candidates statement into any required foreign language as specified in A or B of Section 2 above pursuant to Federal and/or State law.
    2. The candidate shall be required to pay for the cost of translating the candidates statement into any foreign language that is <u>not required</u> as specified in A or B of Section 2 above, pursuant to Federal and/or State law, but is requested as an option by the candidate.

B. Printing.
   1. The candidate shall be required to pay for the cost of printing the candidates statement in English in the main voter pamphlet.
   2. The candidate shall be required to pay for the cost of printing the candidates statement in a foreign language required in A of Section 2 above, in the main voter pamphlet.
   3. The candidate shall be required to pay for the cost of printing of the candidates statement in a foreign language requested by the candidate per B of Section 2 above, in the main voter pamphlet.
   4. The candidate shall be required to pay for the cost of printing the candidates statement in a foreign language required by A of Section 2 above in the facsimile voter pamphlet.

The City Clerk shall estimate the total cost of printing, handling, translating, and mailing the candidate's statements filed pursuant to this section, including costs incurred as a result of complying with the Voting Rights Act of 1985 (as amended) and require each candidate filing a statement to pay in advance to the local agency his or her estimated pro rata share as a condition of having his or her statement included in the voter's pamphlet. In the event the estimated payment is required, the estimate is just an approximation of the actual cost that varies from one election to another election and may be significantly more or less than the estimate, depending on the actual number of candidates filing statements. Accordingly, the clerk is not bound by the estimate and may, on a pro rata basis, bill the candidate for additional actual expense or refund any excess paid depending on the final actual cost. In the event of underpayment, the clerk may require the candidate to pay the balance of the cost incurred. In the event of overpayment, the clerk shall prorate the excess amount among the candidates and refund the excess amount paid within 30 days of the election.

SECTION 4. MISCELLANEOUS.

A. All translations shall be provided by professionally-certified translators.
B. The City Clerk shall allow (bold type) (underlining) (capitalization) (indentations) (bullets) (leading hyphens) to the same extent and manner as allowed in previous City elections.
C. The City Clerk shall comply with all recommendations and standards set forth by the California Secretary of State regarding occupations designations and other matters relating to elections

SECTION 5. ADDITIONAL MATERIALS. No candidate will be permitted to include additional materials in the voter information guide.

SECTION 6. That the City Clerk shall provide each candidate or the candidate's representative a copy of this Resolution at the time nominating petitions are issued.

SECTION 7. That all previous resolutions establishing council policy on payment for candidates statements are repealed.

SECTION 8. That this resolution shall apply at the next ensuing municipal election and at each municipal election after that time.

SECTION 9. That this resolution shall only apply to the election to be held on November 3, 2026 and shall then be repealed

SECTION 10. that the City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED AND ADOPTED ON June 17, 2026.

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

RESOLUTION NO. 2026-39

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, SETTING PRIORITIES FOR FILING A WRITTEN ARGUMENT(S) REGARDING CITY MEASURES AND DIRECTING THE CITY ATTORNEY TO PREPARE AN IMPARTIAL ANALYSIS

WHEREAS, a General Municipal Election is to be held in the City of Imperial, California on November 3, 2026 at which there will be submitted to the voters the following measures:

"Shall the measure, placed on the ballot by initiative, which seeks to repeal or reduce Mello-Roos Community Facilities District (CFD)_taxes within City of Imperial Community Facilities District No. 2004-2 upon satisfaction of all outstanding obligations, be adopted?	YES _____ NO _____

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, DOES RESOLVE, DECLARE, DETERMINE, AND ORDER AS FOLLOWS:

SECTION 1. that the City Council authorizes the following members of its body.

Member(s) Ida Obeso-Martinez
Stacy Mendoza
James Tucker
Katie Burnworth
Robert Amparano

to file (a) written argument(s) not exceeding 300 words regarding the City measure as specified above, accompanied by the printed name(s) and signature(s) of the author(s) submitted it in accordance with Article 4, Chapter 3, Division 9 of the Elections Code of the State of California. The arguments may be changed or withdrawn until and including the date fixed by the City Clerk after which no arguments for or against the City measure may be submitted to the City Clerk.

The arguments shall be filed with the City Clerk, signed, with the printed name(s) and signature(s) of the author(s) submitting it, or if submitted on behalf of an organization, the name of the organization, and the printed name and signature of at least one of its principal officers who is the author of the argument. The arguments shall be accompanied by the Form of Statement To Be Filed By Author(s) of Argument.

SECTION 2. that the city council directs the City Clerk to transmit a copy of the measure to the city attorney, unless the organization or salaries of the office of the city attorney are affected.

a. The city attorney shall prepare an impartial analysis of the measure not exceeding 500 words showing the effect of the measure on the existing law and the operation of the

measure. If the measure affects the organization or salaries of the office of the city attorney, the city clerk shall prepare the impartial analysis.

b. The analysis shall include a statement indicating whether the measure was placed on the ballot by a petition signed by the requisite number of voters or by the governing body of the city.
c. In the event the entire text of the measure is not printed on the ballot, nor in the voter information portion of the voter information guide, there shall be printed immediately below the impartial analysis, in no less than 10-point type, the following: "The above statement is an impartial analysis of Ordinance or Measure. If you desire a copy of the ordinance or measure, please call the election official's office at 760-355-5303 and a copy will be mailed at no cost to you."
d. The impartial analysis shall be filed by the date set by the City Clerk for the filing of primary arguments.

SECTION 3. That the City Clerk shall certify to the passage and adoption of this resolution and enter it into the book of original resolutions.

PASSED, APPROVED AND ADOPTED ON June 17, 2026

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

RESOLUTION NO. 2026-40

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, PROVIDING FOR THE FILING OF REBUTTAL ARGUMENTS FOR CITY MEASURES SUBMITTED AT MUNICIPAL ELECTIONS

WHEREAS, § 9282 of the Elections Code of the State of California provides for written arguments to be filed in favor of or against city measures not to exceed 300 words in length; and

WHEREAS, § 9285 of the Elections Code of the State of California authorizes the City Council, by majority vote, to adopt provisions to provide for the filing of rebuttal arguments for city measures submitted at municipal elections.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, DOES RESOLVE, DECLARE, DETERMINE, AND ORDER AS FOLLOWS:

SECTION 1. That pursuant to Section 9285 of the Elections Code of the State of California, when the elections official has selected the arguments for and against the measure (not exceed 300 words each) which will be printed and distributed to the voters, the elections official shall send a copy of the argument in favor of the proposition to the authors of any argument against the measure and a copy of an argument against the measure to the authors of any argument in favor of the measure immediately upon receiving the arguments.

The author or a majority of the authors of any argument relating to a city measure may prepare and submit a rebuttal argument not exceeding 250 words or may authorize in writing any other person or persons to prepare, submit, or sign the rebuttal argument.

A rebuttal argument may not be signed by more than five authors.

The rebuttal arguments shall be filed with the City Clerk, signed, with the printed name(s) and signature(s) of the author(s) submitting it, or if submitted on behalf of an organization, the name of the organization, and the printed name and signature of at least one of its principal officers, not more than 10 days after the final date for filing direct arguments. The rebuttal arguments shall be accompanied by the Form of Statement To Be Filed By Author(s) of Argument.

Rebuttal arguments shall be printed in the same manner as the direct arguments. Each rebuttal argument shall immediately follow the direct argument which it seeks to rebut.

SECTION 2. That all previous resolutions providing for the filing of rebuttal arguments for city measures are repealed.

SECTION 3. That the provisions of Section 1 shall apply only to the election to be held on November 3, 2026 and shall then be repealed.

SECTION 4. That the City Clerk shall certify to the passage and adoption of this Resolution and enter it into the book of original Resolutions.

PASSED, APPROVED, AND ADOPTED ON June 17, 2026.

_____
Ida Obeso-Martinez, Mayor

ATTEST:

_____
Kristina Shields, City Clerk

City Council
STAFF REPORT
Document ID: 2026-338
Category: Action Item

Department: Police

Department Head: Aaron Reel, Police Chief

Meeting Date: June 17, 2026

SUBJECT:

2025 CITY OF IMPERIAL SPEED SURVEY

BACKGROUND:

In December 2025, the Police Department completed a comprehensive speed survey of roadways throughout the City. The survey was conducted using LIDAR speed measurement equipment and analyzed through the Urban SDK traffic data management system to ensure compliance with applicable traffic engineering standards and requirements.

The purpose of the survey was to collect current speed data to assist in establishing and maintaining appropriate speed limits, support traffic enforcement efforts, and enhance roadway safety throughout the community.

The completed survey was reviewed, approved, and signed by Engineer David Dale in December 2025.

The speed survey encompasses all designated roadway segments within the City, with the exception of State Route 86 between Treshill Road and Ralph Road. This segment has not yet been completed due to on-going construction and will be addressed separately upon completion of the required data collection and analysis.
Acceptance of the survey will allow the City to utilize the updated traffic engineering data for speed limit evaluations, enforcement considerations, and future traffic safety planning.

FISCAL IMPACT:

None

REQUESTED ACTION:

Accept and approve the citywide speed survey completed by the Imperial Police Department.

CITY MANAGER RECOMMENDATION:

Attachments:

1. IMPERIAL 2025 SPEED SURVEY

ENGINEERING AND TRAFFIC SURVEY FOR SPEED ZONING

December 22, 2025

Prepared by the Public Services Division in Conjunction with the Police Department of the City of Imperial, California

Approved by:
David Dale, City Engineer, #C683588

_____

Prepared by:
Aaron Reel, Police Chief

_____

CITY OF IMPERIAL
RADAR SPEED SURVEY

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INTRODUCTION

SPEED LIMITS

WHAT THE LAW REQUIRES

The California Vehicle Code mandates that speed zoning be determined by measuring the prevailing speed of traffic and carefully evaluating any unusual hazards. The Code's language reflects the reasonable viewpoint that speed zoning, like other traffic controls, should be based on actual traffic conditions rather than a quick response to a traffic event.

HOW SPEED LIMITS ARE SET

Speed limits established by California Vehicle Code (prima facie) are:

- 15 mph in alleys.
- 15 mph at railroad crossings.
- 25 mph in school zones.
- 25 mph in a residence or business district.
- 25 mph when passing a senior citizens facility.

Other roadways not classified as a local street or road require an Engineering and Traffic Survey (E&TS) to establish the speed limit.

An engineering and traffic survey is conducted by sampling the speeds of 100 free-flowing vehicles. The survey identifies the 85th percentile speed, which is the highest speed at which 85% of the vehicles are traveling. This 85th percentile speed is used as a guideline for setting the speed limit.

Factors such as land use, pedestrian activity, accident history, and road design and construction (e.g., curves, changes in elevation, etc.) are also considered and are factored into setting speed limits below the 85th percentile speed.

ENGINEERING AND TRAFFIC SURVEY

The California Vehicle Code authorizes local authorities to increase or decrease certain speed limits on their highways on the basis of an "engineering and traffic survey." This survey is defined in Section 627 of the Vehicle Code:

Vehicle Code section 627

(a) "Engineering and traffic survey," as used in this code, means a survey of highway and traffic conditions in accordance with methods determined by the Department of Transportation for use by state and local authorities.

(b) An engineering and traffic survey shall include, among other requirements deemed necessary by the department, consideration of all of the following:

(1) Prevailing speeds as determined by traffic engineering measurements.

(2) Accident records.

(3) Highway, traffic, and roadside conditions not readily apparent to the driver.

(c) When conducting an engineering and traffic survey, local authorities, in addition to the factors set forth in paragraphs (1) to (3), inclusive, of subdivision (b) may consider all of the following:

(1) Residential density, if any of the following conditions exist on the particular portion of highway and the property contiguous thereto, other than a business district:

(A) Upon one side of the highway, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 13 or more separate dwelling houses or business structures.

(B) Upon both sides of the highway, collectively, within a distance of a quarter of a mile, the contiguous property fronting thereon is occupied by 16 or more separate dwelling houses or business structures.

(C) The portion of highway is longer than one-quarter of a mile but has the ratio of separate dwelling houses or business structures to the length of the highway described in either subparagraph (A) or (B).

(2) Safety of bicyclists and pedestrians, with increased consideration for vulnerable pedestrian groups including children, seniors, persons with disabilities, users of personal assistive mobility devices, and the unhoused.

A measurement of vehicle speeds at a specific point using lidar or radar, along with overall speed data gathered from Urban SDK, a web-based speed data collection platform is also considered. Vehicle manufacturers collect and provide this telemetry and information on the commercial market.

This report contains enough information to confirm that the conditions of the latest edition of the California Vehicle Code Section 627 have been met, and that other conditions not easily seen by a motorist are properly identified.

The City of Imperial Public Services and Police Department, submit this report in accordance with the California Vehicle Code requirements which mandate an E&TS be conducted every 5, 7, or 10 years on streets under radar surveillance.

STREETS SURVEYED

	Street	Boundaries
1.	Aten Boulevard	Austin Road to Dogwood Road
2.	Barioni Boulevard	La Brucherie Road/B Street to P Street
3.	Clark Road	Rosarito Drive to South City Limits
4.	Cross Road	Fonzie Road to South City Limits
5.	Brewer Road	Austin Road to Nance Road
6.	Fifteenth Street	HWY 86 to N Street
7.	Fonzie Avenue	Clark Road to East City Limits
8.	La Brucherie	Aten Blvd to South City Limits
9.	Monterrey Park Lane	Costa Azul to Las Cuspides Street
10.	Nance Road	Worthington Road to Brewer
11.	P Street	Neckel Road to East 1st Street
12.	Rodeo Street	Neckel Road to 15th Street
13.	Sandalwood Glenn Avenue	Boley Field Drive to Sagebrush Street

SECTION I

SUMMARY OF RADAR SURVEY RESULTS

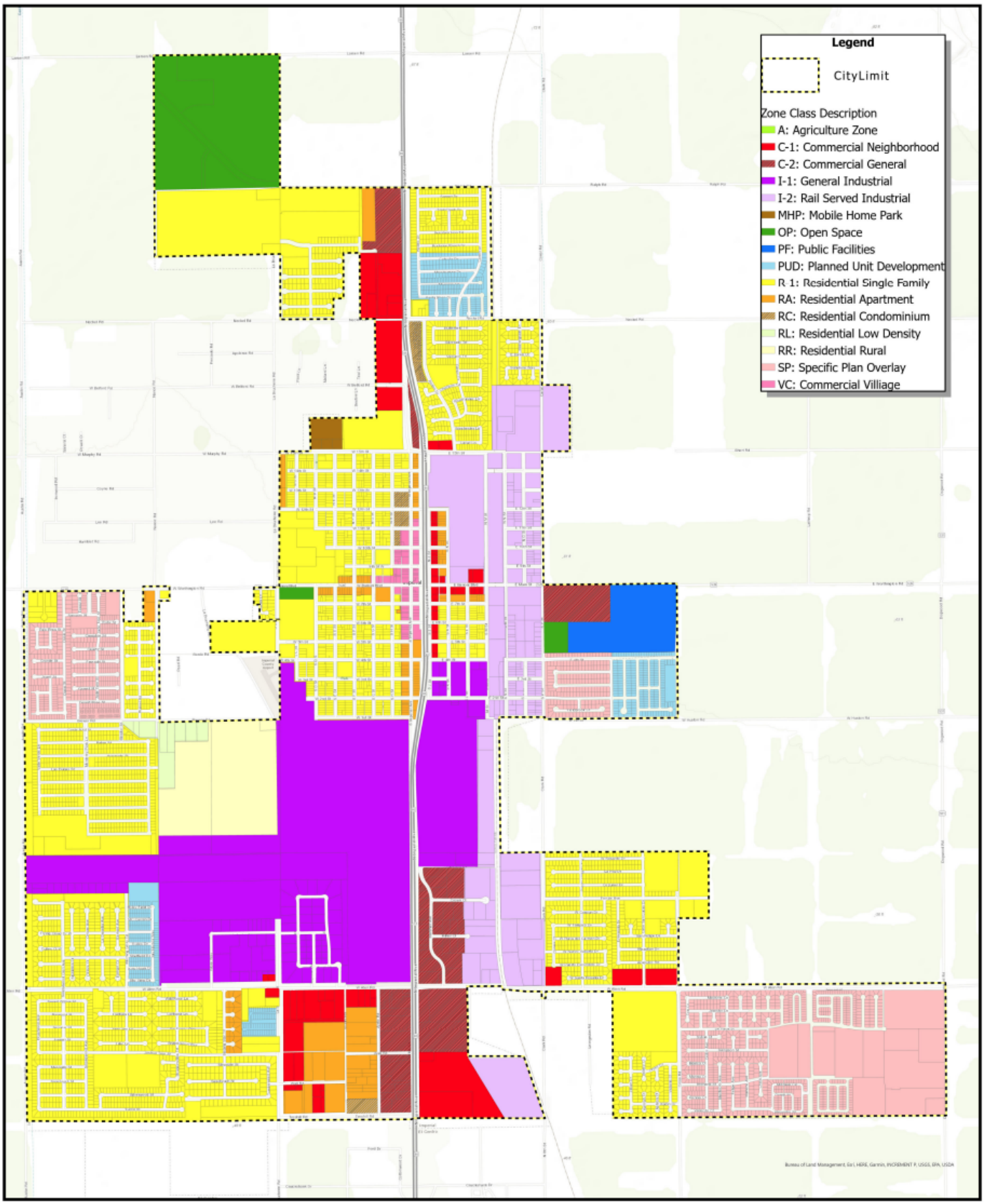
The streets surveyed are listed below, including their boundaries, current speed limits, and the recommended speed limits based on radar/Lidar data and Urban SDK Data. The surveyed streets consist of arterial and collector roads as shown on the 2024 Functional Classification map on page 8 of this survey, as required by Section 40802 of the California Vehicle Code.

A total of 27 street segments were monitored for this survey. At locations where the critical (85th percentile) speed for opposing lanes of traffic indicates different speed limits, the data were combined, and the composite speed was used. There are 16 street segments where the posted speed limit can remain unchanged, allowing for radar enforcement. Nine street segments have the recommended speed increased to reflect the evaluation criteria and the critical (85th percentile) speeds.

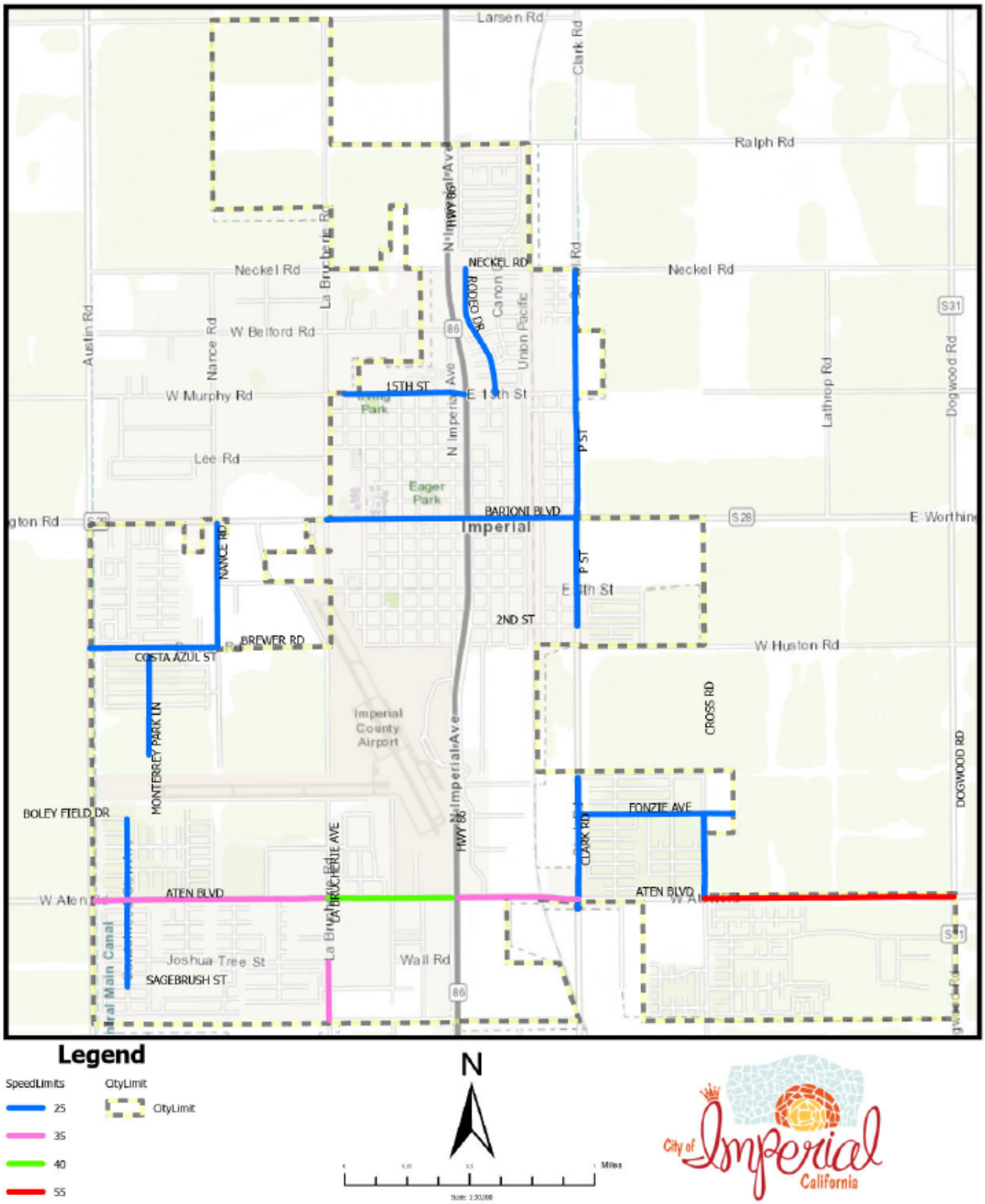
These locations are listed below:

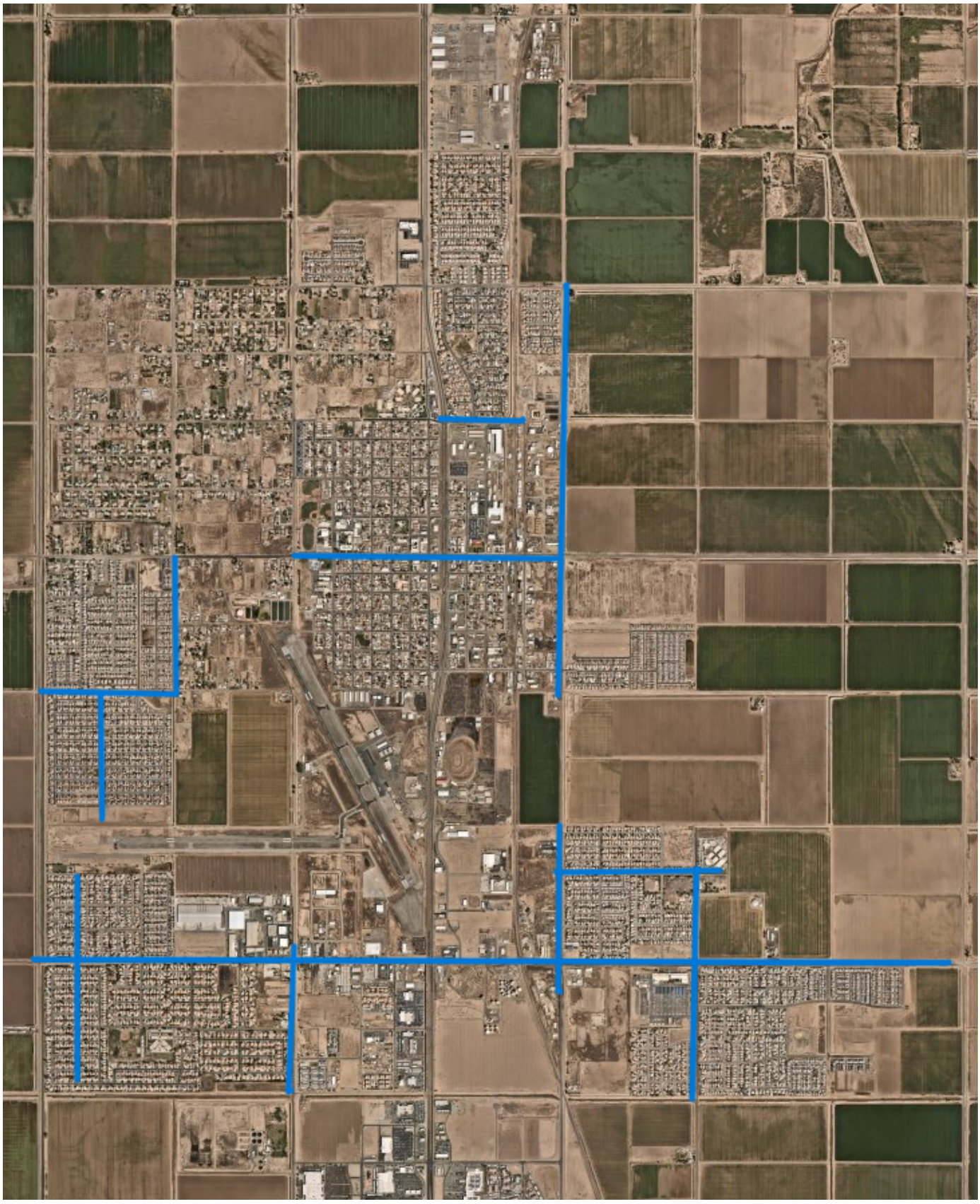
Street Name	Boundaries	Present Speed Limit MPH	Recommended Speed Limit MPH
Aten Boulevard	Austin to La Brucherie La Brucherie to HWY 86 HWY86 to Clark Clark to Cross Cross to Dogwood Road	35 40 40 50 55	35 40 40 50 55
Barioni Boulevard	La Brucherie HWY 86 HWY86 to P Street	25 25	25 25
Clark Road	Rosarito Drive to Aten Aten to South City Limit	25 25	**40** **40**
Cross Road	North City Limits to Fonzie Fonzie to Aten to Bernardi Bernardi to South City Limit	25 25 35	25 25 35
Brewer Road	Austin Road to Nance Road	25	**35**
15th Street	Hwy 86 to N Street	25	**35**
Fonzie Avenue	Clark Road to Puerto Vallarta Puerto Vallarta to Cabo San Lucas Cabo San Lucas to City Limit	25 25 25	25 25 25
Labrucherie	Aten to Joshua Tree Joshua Tree to Wall Wall to South City Limit	35 35 25	35 35 **35**
Monterrey Park Lane	Brewer to Las Cuspides	25	25
Nance Road	Worthington Rd to Brewer Road	35	**40**
P Street	Neckel to East Barioni East Barioni to 1st Street	25 25	**40** **40**
Rodeo Street	15th Street to Neckel	25	**35**
Sandalwood Glenn Avenue	Boley Field to Aten Aten to Sagebrush	25 25	25 25

Zoning Map 2025

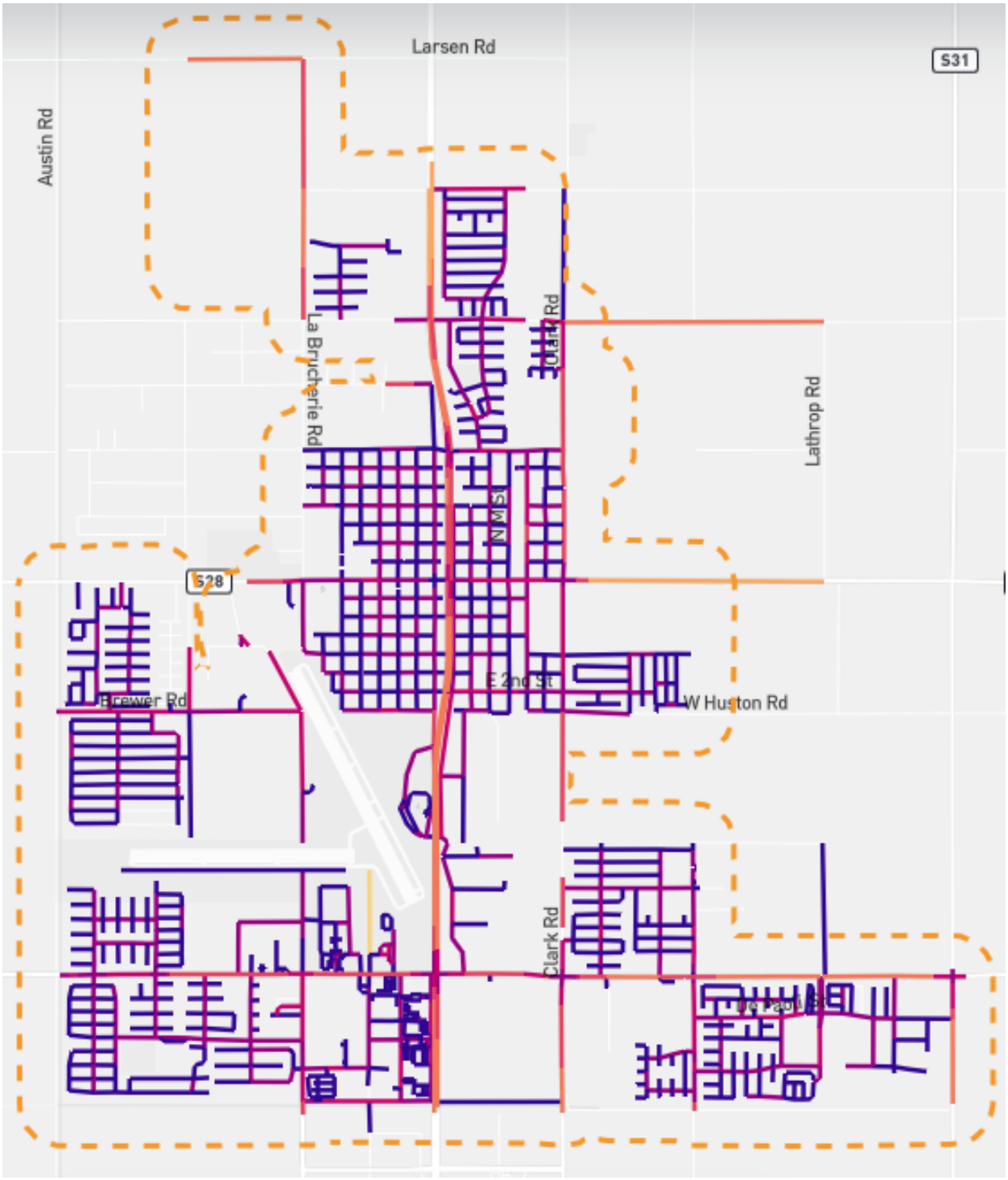


City of Imperial Current Speed Limits





*ROADWAYS SURVEYED IDENTIFIED IN BLUE (North is Up)


Larsen Rd
S31
Austin Rd
La Brucherie Rd
Clark Rd
Lathrop Rd
N M St
S28
E 2nd St
Brewer Rd
W Huston Rd
Clark Rd
Legend
Avg. Speed
Sunrise

SECTION II

SURVEY RESULTS AND RECOMMENDATIONS

This section summarizes the surveyed street segments, compares the critical speed (85% Speed) with the current enforced speed limit, and offers recommendations for adjusting speed limits along with the rationale for these suggestions.

The appendix on “Field Survey Data” offers essential backup for this section.

Several short sections of streets have had the speed limit raised or lowered as allowed by the California Manual on Uniform Traffic Control Devices and the California Vehicle Code. The justification for recommended changes from the 85th percentile speed is noted with each street section and is shown below.

Justification for reducing or increasing speed limit on individual street segments:

1. The recommended speed limit is raised to match a larger section of the street.

2. The recommended speed limit increases based on cumulative speeds.

3. The recommended speed rounded down to the nearest 5 MPH increment. (CVC 21400.b)

SECTION IV

2025 RADAR SPEED SURVEY

					85TH % SPEED			SPEED LIMIT		COLLISION
NO.	LOCATION OF SURVEY	SURVEY DATE	BOUNDARIES	DIRECTION	2006	2011	2025	EXISTING	RADAR USE	2022-2025
1	Aten Boulevard	12/2/2025 12/3/2025 11/21/2025 12/1/2025	Austin to La Brucherie La Brucherie to HWY 86 HWY86 to Clark Clark to Cross Cross to Dogwood Road	EAST/WEST	43.6 44.9 52 68.8 NS	37 45 41 53 56	47 47 49 49 60	35 40 40 50 55	35 40 40 50 55	38
2	Barioni Boulevard	11/21/2025	La Brucherie to hwy 86 HWY86 to P Street	EAST/WEST	NS 36.8	NS 32	35 41	25 25	25 25	9
3	Clark Road	11/12/2025	Rosarito Drive to South City Limit	NORTH/SOUTH	NS	NS 32	48	25	25	2
4	Cross Road	11/12/2025	Fonzie to Aten Aten to South City Limit	NORTH/SOUTH	NS	NS	39	25 35	25 35	0
5	Brewer Road	10/9/2025	Austin Road to Nance Road	EAST/WEST	NS	NS	39	25	25	2
6	15th Street	10/16/2025	Hwy 86 to N Street	EAST/WEST	NS	NS	36	25	25	1
7	Fonzie Avenue	11/20/2025	Clark Road to City Limit	EAST/WEST	NS	NS 36	32	25	25	0
8	La Brucherie	11/17/2025 11/17/2025 11/17/2025	Aten to Joshua Tree Joshua Tree to Wall Wall to South City Limit	NORTH/SOUTH	NS	37	43 43 NONE	35 35 25	35 35 25	0
9	Monterrey Park Lane	11/20/2025	Brewer to Las Cuspides	NORTH/SOUTH	NS	NS	33	25	25	0
10	Nance Road	10/23/2025	Worthington Road to Brewer Road	NORTH/SOUTH	NS	NS	42	35	25	2
11	P Street	11/3/2025 11/3/2025	Neckel Road to East Barioni East Barioni to 1st Street	NORTH/SOUTH	NS 43.3	NS	41 52	25 25	25 25	0
12	Rodeo Street	10/17/2025	15th Street to Neckel	NORTH/SOUTH	36.3	31	34	25	25	0
13	Sandalwood Glenn Avenue	10/22/2025 10/22/2025	Boley Field to Aten Aten to Sagebrush	NORTH/SOUTH	NS	NS	32 29	25 25	25 25	0

CITY OF IMPERIAL
RADAR SPEED HISTORY

INJURY COLLISION HISTORY

YEAR	NUMBER OF INJURY COLLISIONS	PERCENT CHANGE
2019	3*	N/A
2020	0*	N/A
2021	17*	133%
2022	22	29%
2023	67*	205%
2024	21	-68.6%
2025	21	0%

*Data collected and maintained internally does not match the California Offices of Traffic Safety (OTS)

SECTION IV

SPEED CONTROL EFFORTS BY IMPERIAL POLICE DEPARTMENT

The Imperial Police Department (IPD) has used radar intermittently over the past 20 years. Recently, IPD has acquired new radar and LIDAR equipment for data collection and enforcement purposes. IPD will use both radar and LIDAR to effectively enforce speed limits and reduce speed-related issues and collisions in Imperial. The use of radar and LIDAR is recognized as an effective enforcement tool and is employed by most law enforcement agencies in California, including the California Highway Patrol (CHP).

When trained and used properly, officers who issue speeding citations using radar or LIDAR are often less likely to face challenges in court compared to those who rely on visual estimates or vehicle pacing. Enforcement methods include marked patrol cars.

The Office of Traffic Safety (OTS) provided the City of Imperial with grant funding aimed at reducing collisions through various enforcement measures, including speed enforcement. Part of the funding from OTS is allocated for overtime to conduct traffic enforcement. Additional funding from OTS was also sought to purchase radar and LIDAR units used for speed enforcement. LIDAR utilizes light-emitting technology that enables an officer to target a specific vehicle—even within a group of vehicles—and determine its speed and distance from the unit.

IPD has dedicated traffic equipment, including a radar feedback sign. Signs have been placed at various locations within the City of Imperial based on complaint data and reports from Urban SDK, as well as speed-related collisions. The speed sign is frequently moved throughout the city based on needs and data collected. It provides motorists with feedback on their speed, accompanied by flashing lights, which often influences drivers who might not otherwise pay attention to their speed.

As of September 30th, 2025, IPD has no officers assigned specifically to traffic enforcement. Patrol personnel work 12-hour shifts three or four days per week.

The IPD currently deploys:

10 Patrol Officers

4 Patrol Sergeants

1 Detective

1 Detective Sergeant

1 CSIT team member

2 School Resource Officers

1 Drug Task Force Agent

Twenty sworn personnel have been trained and certified in the use of lidar/radar.

APPENDIX A

DEFINITIONS

Speed Signs for Business and Residence Districts

CVC § 21357. Speed restriction signs may, but need not, be erected upon any highway other than a state highway at the entrance thereof into a business or residence district unless required in this chapter.

Speed Signs for Special Areas

CVC § 21359. Whenever the Department of Transportation or a local authority as authorized by this code determines and declares a speed limit different from the limit otherwise applicable under Sections 22349 and 22352, appropriate speed restriction signs shall be erected and maintained at the outside entrance of the highway or portion thereof upon which the special speed limit is applicable. The special speed limit is not effective until appropriate signs have been erected.

Maximum Speed Limit

CVC § 22349.(a) Except as provided in Section 22356, no person may drive a vehicle upon a highway at a speed greater than 65 miles per hour.

(b) *Notwithstanding any other provision of law, no person may drive a vehicle upon a two-lane, undivided highway at a speed greater than 55 miles per hour unless that highway, or portion thereof, has been posted for a higher speed by the Department of Transportation or appropriate local agency upon the basis of an E&TS. For purposes of this subdivision, the following apply:*

(1) *A two-lane, undivided highway is a highway with not more than one through lane of travel in each direction.*

(2) *Passing lanes may not be considered when determining the number of through lanes.*

(c) *It is the intent of the Legislature that there be reasonable signing on affected two- lane, undivided highways described in subdivision (b) in continuing the 55 miles-per- hour speed limit, including placing signs at county boundaries to the extent possible, and at other appropriate locations.*

Basic Speed Law

CVC § 22350. No person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of, the highway, and in no event at a speed which endangers the safety of persons or property.

Speed Law Violations

CVC § 22351.(a) The speed of any vehicle upon a highway not in excess of the limits

specified in Section 22352 or established as authorized in this code is lawful unless clearly proved to be in violation of the basic speed law.

(b) The speed of any vehicle upon a highway in excess of the prima facie speed limits in Section 22352 or established as authorized in this code is prima facie unlawful unless the defendant establishes by competent evidence that the speed in excess of said limits did not constitute a violation of the basic speed law at the time, place and under the conditions then existing.

Prima Facie Speed Limits

CVC § 22352. (a) The prima facie limits are as follows and shall be applicable unless changed as authorized in this code and, if so changed, only when signs have been erected giving notice thereof:

(1) *Fifteen miles per hour:*

(A) *When traversing a railway grade crossing, if during the last 100 feet of the approach to the crossing the driver does not have a clear and unobstructed view of the crossing and of any traffic on the railway for a distance of 400 feet in both directions along the railway. This subdivision does not apply in the case of any railway grade crossing where a human flagman is on duty or a clearly visible electrical or mechanical railway crossing signal device is installed but does not then indicate the immediate approach of a railway train or car.*

(B) *When traversing any intersection of highways if during the last 100 feet of the driver's approach to the intersection the driver does not have a clear and unobstructed view of the intersection and of any traffic upon all of the highways entering the intersection for a distance of 100 feet along all those highways, except at an intersection protected by stop signs or yield right-of-way signs or controlled by official traffic control signals.*

(C) *On any alley.*

(2) *Twenty-five miles per hour:*

(A) *On any highway other than a state highway, in any business or residence district unless a different speed is determined by local authority under procedures set forth in this code.*

(B) *When approaching or passing a school building or the grounds thereof, contiguous to a highway and posted with a standard "SCHOOL" warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. The prima facie limit shall also apply when approaching or passing any school grounds which are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children and the highway is posted with a standard "SCHOOL" warning sign. For purposes of this subparagraph, standard "SCHOOL" warning signs may be placed at any distance up to 500 feet away from school grounds.*

(C) *When passing a senior center or other facility primarily used by senior citizens, contiguous to a street other than a state highway and posted with a standard "SENIOR" warning sign. A local authority is not required to erect any sign pursuant to this paragraph until donations from private sources covering those costs are received and the local agency makes a determination that the proposed signing should be implemented. A local authority may, however, utilize any other funds available to it to pay for the erection of those signs.*

(b) This section shall become operative on March 1, 2001.

Increase of Local Speed Limits to 65 Miles Per Hour

CVC § 22357. (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that a speed greater than 25 miles per hour would facilitate the orderly movement of vehicular traffic and would be reasonable and safe upon any street other than a state highway otherwise subject to a prima facie limit of 25 miles per hour, the local authority may by ordinance determine and declare a prima facie speed limit of 30, 35, 40, 45, 50, 55, or 60 miles per hour or a maximum speed limit of 65 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe. The declared prima facie or maximum speed limit shall be effective when appropriate signs giving notice thereof are erected upon the street and shall not thereafter be revised except upon the basis of an engineering and traffic survey. This section does not apply to any 25-mile-per-hour prima facie limit which is applicable when passing a school building or the grounds thereof or when passing a senior center or other facility primarily used by senior citizens.

(b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

Decrease Near Children's Playgrounds

CVC § 22357.1. Notwithstanding Section 22357, a local authority may, by ordinance or resolution, set a prima facie speed limit of 25 miles per hour on any street, other than a state highway, adjacent to any children's playground in a public park but only during particular hours or days when children are expected to use the facilities. The 25 miles per hour speed limit shall be effective when signs giving notice of the speed limit are posted.

Decrease of Local Speed Limits

CVC § 22358 (a). Whenever a local authority determines upon the basis of an engineering and traffic survey that the limit of 65 miles per hour is more than is reasonable or safe upon any portion of any street other than a state highway where the limit of 65 miles per hour is applicable, the local authority may by ordinance determine and declare a prima facie speed limit of 60, 55, 50, 45, 40, 35, 30, or 25 miles per hour, whichever is found most appropriate to facilitate the orderly movement of traffic and is reasonable and safe, which declared prima facie limit shall be effective when appropriate signs giving notice thereof are erected upon the street.

(b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

Decrease on Narrow Street

CVC § 22358.3. Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie speed limit of 25 miles per hour in a business or residence district or in a public park on any street having a roadway not exceeding 25 feet in width, other than a state highway, is more than is reasonable or safe, the local authority may, by ordinance or resolution determine and declare a prima facie speed limit of 20 or 15 miles per hour, whichever is found most appropriate and is reasonable and safe. The declared prima facie limit shall be effective when appropriate signs giving notice thereof are erected upon the street.

Decrease of Local Limits Near Schools or Senior Centers

CVC § 22358.4 ((a) (1) Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie speed limit of 25 miles per hour established by paragraph (2) of subdivision (a) of Section 22352 is more than is reasonable or safe, the local authority may, by ordinance or resolution, determine and declare a prima facie speed limit of 20 or 15 miles per hour, whichever is justified as the appropriate speed limit by that survey.

(2) An ordinance or resolution adopted under paragraph (1) shall not be effective until appropriate signs giving notice of the speed limit are erected upon the highway and, in the case of a state highway, until the ordinance is approved by the Department of Transportation and the appropriate signs are erected upon the highway.

(b) *(1) Notwithstanding subdivision (a) or any other provision of law, a local authority may, by ordinance or resolution, determine and declare prima facie speed limits as follows:*

(A) *A 15 miles per hour prima facie limit in a residence district, on a highway with a posted speed limit of 30 miles per hour or slower, when approaching, at a distance of less than 500 feet from, or passing, a school building or the grounds of a school building, contiguous to a highway and posted with a school warning sign that indicates a speed limit of 15 miles per hour, while children are going to or leaving the school, either during school hours or during the noon recess period. The prima facie limit shall also apply when approaching, at a distance of less than 500 feet from, or passing, school grounds that are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children and the highway is posted with a school warning sign that indicates a speed limit of 15 miles per hour.*

(B) *A 25 miles per hour prima facie limit in a residence district, on a highway with a posted speed limit of 30 miles per hour or slower, when approaching, at a distance of 500 to 1,000 feet from, a school building or the grounds thereof, contiguous to a highway and posted with a school warning sign that indicates a speed limit of 25 miles per hour, while children are going to or leaving the school, either during school hours or during the noon recess period. The prima facie limit shall also apply when approaching, at a distance of 500 to 1,000 feet from, school grounds that are not separated from the*

highway by a fence, gate, or other physical barrier while the grounds are in use by children and the highway is posted with a school warning sign that indicates a speed limit of 25 miles per hour.

(2) *The prima facie limits established under paragraph (1) apply only to highways that meet all of the following conditions:*

(A) *A maximum of two traffic lanes.*

(B) *A maximum posted 30 miles per hour prima facie speed limit immediately prior to and after the school zone.*

(3) *The prima facie limits established under paragraph (1) apply to all lanes of an affected highway, in both directions of travel.*

(4) *When determining the need to lower the prima facie speed limit, the local authority shall take the provisions of Section 627 into consideration.*

(5) *(A) An ordinance or resolution adopted under paragraph (1) shall not be effective until appropriate signs giving notice of the speed limit are erected upon the highway and, in the case of a state highway, until the ordinance is approved by the Department of Transportation and the appropriate signs are erected upon the highway.*

(B) *For purposes of subparagraph (A) of paragraph (1), school warning signs indicating a speed limit of 15 miles per hour may be placed at a distance up to 500 feet away from school grounds.*

(C) *For purposes of subparagraph (B) of paragraph (1), school warning signs indicating a speed limit of 25 miles per hour may be placed at any distance between 500 and 1,000 feet away from the school grounds.*

(D) *A local authority shall reimburse the Department of Transportation for all costs incurred by the department under this subdivision.*

Downward Speed Zoning

CVC § 22358.5.It is the intent of the Legislature that physical conditions such as width, curvature, grade and surface conditions, or any other condition readily apparent to a driver, in the absence of other factors, would not require special downward speed zoning, as the basic rule of Section 22350 is sufficient regulation as to such conditions. Added Ch. 11, Stats. 1959. Effective September 18, 1959.

Boundary Line Streets

CVC § 22359. With respect to boundary line streets and highways where portions thereof are within different jurisdictions, no ordinance adopted under Sections 22357 and 22358 shall be effective as to any such portion until all authorities having jurisdiction of the portions of the street concerned have approved the same. This section shall not apply in the case of boundary line streets consisting of separate roadways within different jurisdictions.

Maximum Speed Limit on Local Highway Linking Districts

CVC § 22360. (a) Whenever a local authority determines upon the basis of an engineering and traffic survey that the limit of 65 miles per hour is more than is reasonable or safe upon any portion of a highway other than a state highway for a distance of not exceeding 2,000 feet in length between districts, either business or residence, the local authority may determine and declare a reasonable and safe prima facie limit thereon lower than 65 miles per hour, but not less than 25 miles per hour, which declared prima facie speed limit shall be effective when appropriate signs giving notice thereof are erected upon the street or highway.

(b) This section shall become operative on the date specified in subdivision (c) of Section 22366.

Decreasing Speed Limit on Grades

CVC § 22413. Whenever a local authority determines upon the basis of an engineering and traffic survey that the prima facie limit of 25 miles per hour is more than is reasonable and safe on any portion of a street having a grade in excess of 10 percent, the local authority may by ordinance determine and declare a maximum limit of 20 or 15 miles per hour, whichever is found most appropriate and is reasonable and safe. The declared maximum speed shall be effective when appropriate signs giving notice thereof are erected upon the street.

Speed Trap Prohibition

CVC § 40801. No peace officer or other person shall use a speed trap in arresting, or participating or assisting in the arrest of, any person for any alleged violation of this code nor shall any speed trap be used in securing evidence as to the speed of any vehicle for the purpose of an arrest or prosecution under this code.

Speed Traps

CVC § 40802. (a) A "speed trap" is either of the following:

(1) *A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.*

(2) *A particular section of a highway with a prima facie speed limit that is provided by this code or by local ordinance under subparagraph (A) of paragraph (2) of subdivision* (a) *of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within five years prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects. This paragraph does not apply to a local street, road, or school zone.*

(b) *(1) For purposes of this section, a local street or road is one that is functionally classified as "local" on the "California Road System Maps," that are approved by the Federal Highway Administration and maintained by the Department of Transportation.*

When a street or road does not appear on the "California Road System Maps," it may be defined as a "local street or road" if it primarily provides access to abutting residential property and meets the following three conditions:

(A) *Roadway width of not more than 40 feet.*

(B) *Not more than one-half of a mile of uninterrupted length. Interruptions shall include official traffic control signals as defined in Section 445.*

(C) *Not more than one traffic lane in each direction.*

(2) For purposes of this section "school zone" means that area approaching or passing a school building or the grounds thereof that is contiguous to a highway and on which is posted a standard "SCHOOL" warning sign, while children are going to or leaving the school either during school hours or during the noon recess period. "School zone" also includes the area approaching or passing any school grounds that are not separated from the highway by a fence, gate, or other physical barrier while the grounds are in use by children if that highway is posted with a standard "SCHOOL" warning sign.

(c) *(1) When all of the following criteria are met, paragraph (2) of this subdivision shall be applicable and subdivision (a) shall not be applicable:*

(A) *When radar is used, the arresting officer has successfully completed a radar operator course of not less than 24 hours on the use of police traffic radar, and the course was approved and certified by the Commission on Peace Officer Standards and Training.*

(B) *When laser or any other electronic device is used to measure the speed of moving objects, the arresting officer has successfully completed the training required in subparagraph (A) and an additional training course of not less than two hours approved and certified by the Commission on Peace Officer Standards and Training.*

(C) *(i) The prosecution proved that the arresting officer complied with subparagraphs (A) and (B) and that an engineering and traffic survey has been conducted in accordance with subparagraph (B) of paragraph (2). The prosecution proved that, prior to the officer issuing the notice to appear, the arresting officer established that the radar, laser, or other electronic device conformed to the requirements of subparagraph (D). (ii) The prosecution proved the speed of the accused was unsafe for the conditions present at the time of alleged violation unless the citation was for a violation of Section 22349, 22356, or 22406.*

(D) *The radar, laser, or other electronic device used to measure the speed of the accused meets or exceeds the minimal operational standards of the National Traffic Highway Safety Administration, and has been calibrated within the three years prior to the date of the alleged violation by an independent certified laser or radar repair and testing or calibration facility.*

(2) A "speed trap" is either of the following:

(A) *A particular section of a highway measured as to distance and with boundaries marked, designated, or otherwise determined in order that the speed of a vehicle may be calculated by securing the time it takes the vehicle to travel the known distance.*

(B) *(i) A particular section of a highway or state highway with a prima facie speed limit that is provided by this code or by local ordinance under subparagraph (A) of paragraph (2) of subdivision (a) of Section 22352, or established under Section 22354, 22357, 22358, or 22358.3, if that prima facie speed limit is not justified by an engineering and traffic survey conducted within one of the following time periods, prior to the date of the alleged violation, and enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects:*

(I) Except as specified in subclause (II), seven years.

(II) If an engineering and traffic survey was conducted more than seven years prior to the date of the alleged violation, and a registered engineer evaluates the section of the highway and determines that no significant changes in roadway or traffic conditions have occurred, including, but not limited to, changes in adjoining property or land use, roadway width, or traffic volume, 10 years.

(ii) This subparagraph does not apply to a local street, road, or school zone.

CRITICAL (85th PERCENTILE) SPEED

Speed limit determinations rely on the premise that a reasonable speed limit is one that aligns with the actual behavior of most drivers; therefore, selecting a speed limit that is both reasonable and effective can be achieved by measuring the speeds of drivers. The 85th percentile speed is the speed at or below which 85% of the traffic is moving. The speed chosen for speed zoning should be in 5-mile-per-hour increments and typically be set close to the 85th percentile speed.

10 MPH PACE

The pace is the 10 mph speed range that contains the most observations. The higher the percentage of vehicles within this pace, the smaller the speed difference. A high percentage of vehicles in the 10 mph speed range indicates a desirable traffic flow.

APPENDIX "B"

METHOD OF STUDY AND EQUIPMENT USED

A. Method of Study

The method of study used by the City of Imperial in compiling this report was in conformance with the applicable sections of the California Manual on Uniform Traffic Control Devices (MUTCD) Section 2B.13, as follows:

California MUTCD 2023 Edition
(FHWA's MUTCD 2023 Edition, as amended for use in California)

Section 2B.13 Speed Limit Sign (R2-1)

Support:

00 The setting of speed limits can be controversial and requires a rational and defensible determination to maintain public confidence. Speed limits are normally set near the 85th-percentile speed that statistically represents one standard deviation above the average speed and establishes the upper limit of what is considered reasonable and prudent. As with most laws, speed limits need to depend on the voluntary compliance of the greater majority of motorists. Speed limits cannot be set arbitrarily low, as this would create violators of the majority of drivers and would not command the respect of the public.

Standard:

01 Speed zones (other than statutory speed limits) shall only be established on the basis of an engineering and traffic survey (E&TS) study that has been performed in accordance with traffic engineering practices. The engineering study shall include an analysis of the current speed distribution of free-flowing vehicles.

02 The Speed Limit (R2-1) sign (see Figure 2B-3) shall display the limit established by law, ordinance, regulation, or as adopted by the authorized agency based on the engineering study. The speed limits displayed shall be in multiples of 5 mph.

Guidance:

10 States and local agencies should conduct engineering studies at least once every 5, 7 or 10 years, in compliance with CVC Section 40802 to reevaluate non-statutory speed limits on segments of their roadways that have undergone significant changes since the last review, such as the addition or elimination of parking or driveways, changes in the number of travel lanes, changes in the configuration of bicycle lanes, changes in traffic control signal coordination, or significant changes in traffic volumes.

12 When a speed limit within a speed zone is posted, it should be within 5 mph of the 85th-percentile speed of free-flowing traffic.

Standard:

12a When a speed limit is to be posted, it shall be established at the nearest 5 mph increment of the 85th-percentile speed of free-flowing traffic, except as shown in the two Options below.

Option:

1. The posted speed may be reduced by 5 mph from the nearest 5 mph increment of the 85th-percentile speed, in compliance with CVC Sections 627 and 22358.5. See Standard below for documentation requirements.

2. For cases in which the nearest 5 mph increment of the 85th-percentile speed would require a rounding up, then the speed limit may be rounded down to the nearest 5 mph increment below the 85th percentile speed, if no further reduction is used. Refer to CVC Section 21400(f).

Standard:

12b If the speed limit to be posted has had the 5 mph reduction applied, then an E&TS shall document in writing the conditions and justification for the lower speed limit and obtain approval from a registered Civil or Traffic Engineer. The reasons for the lower speed limit shall comply with CVC Sections 627 and 22358.5.

Support:

12c The following examples are given to illustrate how these speed limit criteria are applied:

A. Using Option 1 above and first step is to round down: If the 85th percentile speed in a speed survey for a location was 37 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 37 mph speed. As indicated by the option, this 35 mph established speed limit could be reduced by 5 mph to 30 mph if the conditions and justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.

B. Using Option 1 above and first step is to round up: If the 85th percentile speed in a speed survey for a location was 33 mph, then the speed limit would be established at 35 mph since it is the closest 5 mph increment to the 33 mph speed. As indicated by the option, this 35 mph speed limit could be reduced by 5 mph to 30 mph if the conditions and justification for using this lower speed limit are documented in the E&TS and approved by a registered Civil or Traffic Engineer.

C. Using Option 2 above the d first step is to round up: If the 85th percentile speed in a speed survey for a location was 33 mph, instead of rounding up to 35mph, the speed limit can be established at 30mph, but no further reductions can be applied (which is allowed in the two examples above).

Standard:

12d Examples 1 and 2 for establishing posted speed limits shall apply to engineering and traffic surveys (E&TS) conducted on or after July 1, 2009, in accordance with the Department's Traffic Operations Policy Directive Number 09-04 dated June 29, 2009.

Option:

12e After January 1, 2012, Example 3 may be used to establish speed limits. Refer to CVC 21400(f).

Support:

12f Any existing E&TS that was performed before July 1, 2009, in accordance with previous traffic control device standards, is not required to comply with the new criteria until it is due for reevaluation based on the 5, 7, or 10-year criteria.

13 Speed studies for signalized intersection approaches should be conducted outside the influence area of the traffic control signal, which is generally considered to be about half a mile, to prevent skewed results for the 85th-percentile speed.

Option:

16 Other factors that may be considered when establishing or reevaluating speed limits are the following:

A. Road characteristics, shoulder condition, grade, alignment, and sight distance;
B. The pace;
C. Roadside development and environment;
D. Parking practices and pedestrian activity; and
E. Reported crash experience for at least a 12-month period.

22 Speed limits in California are governed by the California Vehicle Code (CVC), Sections 22348 through 22413; additional relevant sections are found in Sections 627 and 40802 and others referenced in this section. See Section 1A.11 for information regarding this publication.

Engineering and Traffic Survey (E&TS)

Support:

24 CVC Section 627 defines the term "Engineering and traffic survey" and lists its requirements.

Standard:

25 An engineering and traffic survey (E&TS) shall include, among other requirements deemed necessary by the department, consideration of all of the following:

A. Prevailing speeds as determined by traffic engineering measurements.
B. Collision records.
C. Highway, traffic, and roadside conditions not readily apparent to the driver.

Guidance:

26 The E&TS should contain sufficient information to document that the required three items of CVC Section 627 are provided and that other conditions not readily apparent to a driver are properly identified.

27 Prevailing speeds are determined by a speed zone survey. A speed zone survey should include:

A. The intent of the speed measurements is to determine the actual speed of unimpeded traffic. The speed of traffic should not be altered by concentrated law enforcement, or other means, just prior to, or while taking the speed measurements.

B. Only one person is required for the fieldwork. Speeds should be read directly from a radar or other electronic speed measuring devices; or,

C. Devices, other than radar, capable of accurately distinguishing and measuring the unimpeded speed of free-flowing vehicles may be used.

D. A location should be selected where prevailing speeds are representative of the entire speed zone section. If speeds vary on a given route, more than one speed zone section may be required, with separate measurements for each section. Locations for measurements should be chosen so as to minimize the effects of traffic signals or stop signs.

E. Speed measurements should be taken during off-peak hours between peak traffic periods on weekdays. If there is difficulty in obtaining the desired quantity, speed measurements may be taken during any period with free-flowing traffic.

F. The weather should be fair (dry pavement) with no unusual conditions prevailing.

G. The surveyor and equipment should not affect the traffic speeds. For this reason, an unmarked car is recommended, and the radar speed meter is located as inconspicuously as possible.

H. In order for the sample to be representative of the actual traffic flow, the minimum sample should be 100 vehicles in each survey. In no case should the sample contain less than 50 vehicles.

I. Short speed zones of less than 0.5 mile should be avoided, except in transition areas.

J. Speed zone changes should be coordinated with changes in roadway conditions or roadside development.

K. Speed zoning should be in 10 mph increments except in urban areas where 5 mph increments are preferable.

L. Speed zoning should be coordinated with adjacent jurisdictions.

Support:

28 Physical conditions such as width, curvature, grade and surface conditions, or any other condition readily apparent to the driver, in the absence of other factors, would not require special downward speed zoning. Refer to CVC 22358.5.

Option:

29 When qualifying an appropriate speed limit, local authorities may also consider all of the following findings:

A. Residential density, if any of the following conditions exist on the particular portion of highway and the property contiguous thereto, other than a business district:

1. Upon one side of the highway, within 0.25 mile, the contiguous property fronting thereon is occupied by 13 or more separate dwelling houses or business structures.

2. Upon both sides of the highway, collectively, within a distance of 0.25 mile the contiguous property fronting thereon is occupied by 16 or more separate dwelling houses or business structures.

3. The portion of highway is larger than 0.25 mile but has the ratio of separate dwelling houses or business structures to the length of the highway described in either subparagraph a or b.

B. Pedestrian and bicyclist safety.

30 The following two methods of conducting E&TS may be used to establish speed limits:

1. State Highways - The E&TS for State highways is made under the direction of the Department of Transportation’s District Traffic Engineer. The data includes:

a. One copy of the Example of Speed Zone Survey Sheet (See Figure 2B-101(CA)) showing:

- A north arrow
- Engineer's station or post mileage
- Limits of the proposed zones
- Appropriate notations showing type of roadside development, such as “scattered business,” “solid residential” etc. Schools adjacent to the highway are shown, but other buildings need not be plotted unless they are a factor in the speed recommendation or the point of termination of a speed zone.
  - Collision rates for the zones involved
  - Average daily traffic volume
  - Location of traffic signals, signs, and markings
  - If the highway is divided, the limits of zones for each direction of travel
  - Plotted 85th percentile and pace speeds at the location taken showing the speed profile

b. A report to the District Director that includes:

- The reason for the initiation of the speed zone survey.
- Recommendations and supporting reasons.
- The enforcement jurisdictions involved and the recommendations and opinions of those officials.
- The stationing or reference post in mileage at the beginning and ending of each proposed zone and any intermediate equations. Location ties must be given to readily identifiable physical features.

c. City and County Through Highways, Arterials, Collector Roads and Local Streets.

d. The short method of speed zoning is based on the premise that a reasonable speed limit is one that conforms to the actual behavior of the majority of motorists, and that by measuring motorists' speeds, one will be able to select a speed limit that is both reasonable and effective. Other factors that need to be considered include but are not limited to: the most recent two-year collision record, roadway design speed, safe stopping sight distance, super elevation, shoulder conditions, profile conditions, intersection spacing and offsets, commercial driveway characteristics, and pedestrian traffic in the roadway without sidewalks.

e. Determination of Existing Speed Limits - Figures 2B-103(CA) & 2B-104(CA) show examples of data sheets which may be used to record speed observations. Specific types of vehicles can be tallied by using letter symbols in the corresponding squares.

31 In most situations, the short form for local streets and roads will be adequate; however, the procedure used on State highways may be used at the option of the local agency.

Guidance:

32 The factors justifying a reduction below the 85th percentile speed for the posted speed limit are the same factors mentioned above. Whenever such factors are considered to establish the speed limit, they should be documented on the speed zone survey or the accompanying engineering report.

33 Setting a speed limit more than 5 mph below the 85th percentile speed should be done carefully, as studies show that setting a limit lower than the 85th percentile often increases collision rates. Additionally, this could unfairly penalize a majority of reasonable drivers.

Support:

34 Generally, the most decisive evidence of conditions not readily apparent to the driver surfaces in collision histories.

35 Speed limits are set at or near the 85th percentile speed, which is the speed at or below which 85 percent of traffic is moving. This speed is often called the critical speed. Pace speed refers to the 10 mph range of speed with the most vehicles (See Figure 2B-102(CA)). The lower limit of the pace is shown on the Speed Zone Survey Sheets to help determine the proper zone boundaries. Speed limits above the 85th percentile are generally not considered reasonable or prudent. Speed limits below the 85th percentile usually do not promote smooth traffic flow and require constant enforcement to ensure compliance. Limits based on the 85th percentile reflect the consensus of drivers about what speed is reasonable and prudent, rather than the judgment of one or a few individuals

36 The majority of drivers comply with the basic speed law. Speed limits set at or near the 85th percentile speed provide law enforcement officers with a limit to cite drivers who will not conform to what the majority considers reasonable and prudent. Further studies show that establishing a speed limit at less than the 85th percentile (Critical Speed) generally results in an increase in collision rates.

Option:

37 When roadside development causes traffic conflicts and unusual conditions that are not easily visible to drivers, as shown in collision records, speed limits slightly below the 85th percentile may be appropriate. Support and agreement from enforcement officials are essential for the effective operation of a restricted speed zone.

Guidance:

37 Speed zones of less than 0.5 mile and short transition zones should be avoided.

Basic Speed Law and Prima Facie Speed Limits – See CVC §§ 22350 & 22352

Support:

38 The basic speed law states “No person shall drive a vehicle upon a highway at a speed greater than is reasonable or prudent having due regard for weather, visibility, the traffic on, and the surface and width of, the highway, and in no event at a speed which endangers the safety of persons or property.”

Standard:

39 Prima facie speed limits are specific limits and shall apply unless changed based upon an engineering and traffic survey (E&TS) and signs are posted that display the new speed limit.

Option:

40 Prima facie speed limits can be overridden by the basic speed law when roadway, traffic, or weather conditions require a lower speed.

Speed Traps

Support:

93 Refer to CVC § 40802 Speed Traps.

94 A speed trap shall not apply to a local street, road, or school zone.

95 A section of highway shall be defined as a speed trap if the prima facie speed limit is not justified by an engineering and traffic survey (E&TS) within five years, and the enforcement of the speed limit involves the use of radar or any other electronic device that measures the speed of moving objects.

96 This time provision shall be extended to seven years when using radar and all of the following criteria are met:

- The arresting officer has successfully completed a minimum of 24 hours of certified radar operator course training.
- The radar used to measure the speed meets or exceeds the minimal operational standards of the National Traffic Highway Safety Administration, and has been calibrated within three years of the alleged violation.

97 This time provision shall be extended to seven years when using laser or other electronic device (other than radar) and all of the following criteria are met:

- The arresting officer has successfully completed a minimum of 24 hours of certified radar operator course training.
- The arresting officer has successfully completed a minimum of 2 hours of additional approved certified training.
- The radar used to measure the speed meets or exceeds the minimal

operational standards of the National Traffic Highway Safety Administration, and has been calibrated within three years of the alleged violation.

Option:

98 This time provision for an E&TS may be extended to ten years when all of the above conditions are met and no significant changes in roadway or traffic conditions have occurred, including changes in adjoining property or land use, roadway width, or traffic volume as determined by a registered engineer.

B. Equipment Used

The equipment used to sample vehicular speeds was the Imperial Police Department's LIDAR unit described below:

Manufacturer – Stalker
Model - **XLR**
Serial No. – LF008354 Calibration Date - **09/9/25**

Urban SDK - https://portal.urbansdk.com/insights/home - Proprietary software for Speeds, Volumes & Collision Risk Data layers which provide multiple metrics to compare speeds, volumes, collision index, and speed limits.

C. Personnel

The radar speed survey, compilation of the data, and spot speed checks on gathered data were conducted by Eladio Reyes, of the City of Imperial Police Department. Mr. Reyes is trained and certified in the use of both Radar and LIDAR for the purposes of speed data collection and enforcement. Certifications for the equipment use can be found in Appendix E.

David Dale, Registered Engineer #63588 in the State of California, provided guidance and review of the compiled Radar Speed Survey following the directions contained within the 2014 Edition of the California Manual on Uniform Traffic Control Devices (MUTCD) Section 2B.13, while the physical preparation and compilation of the speed data and corresponding report was assembled by Aaron Reel, Police Chief of the City of Imperial Police Department.

This project was conducted under the direction of David Dale. PE, City Engineer for the City of Imperial. Physical data collection, measurements, and preparation of the report was conducted by the Police Department, in collaboration with the City of Imperial Department of Public Services. The City of Imperial does not maintain an independent Transportation Safety Commission.

APPENDIX "C"

STREET CHARACTERISTICS

This section provides a description of some of the physical characteristics of each street segment monitored in this survey. All streets surveyed are defined at a level higher than local streets on the latest federal aid system map. These streets must be included in the survey as required under Section 20802 of the California Vehicle Code. Some of the items included are:

1. Street Width
2. Land Use
3. Parking
4. School Zones
5. Cross Streets
6. Driveway Access to Street
7. Congestion

1 Aten Boulevard

Aten Blvd. is a four lane east/west divided highway, spanning the entire length of the city of Imperial, from West city limit at Austin to East city limit at dogwood with six (6) controlled intersections and ten (10) uncontrolled intersections. Both Westbound and Eastbound lanes are a combination of improved curblines and asphalt to earth boundaries. Westbound lanes and Eastbound lanes of travel range from 76.63' in width to 52.65' in width (sans turn lanes) and are comprised on asphalt construction and include clearly marked (green) bicycle lanes from Aten Road to Hwy 86. The centerline of Aten is marked by paint to identify turn lanes except for 2545.5' of raised curbline (island) west of 86 dividing east/west lanes of travel.

2 Barioni Boulevard

Barioni Blvd. is a four lane east/west divided roadway, spanning the entire length of the city of Imperial, from West city limit at La Brucherie (B Street) to East city limit at P Street with seven (7) controlled intersections and seven (7) uncontrolled intersections. Both Westbound and Eastbound lanes are improved curblines except for 171' pf earth to asphalt at railroad. Westbound lanes and Eastbound lanes of travel range from 65.75' to 47.8' in width (sans turn lanes) and are comprised on asphalt construction.

3 Clark Road

Rosarito Drive is the far north boundary and is two lane divided highway transitioning from a county roadway to the north. The roadway is comprised of asphalt ranging from 31.7' to 70.4' in width (at Aten). From Aten Blvd. N/B, the first 340; are two lanes for northbound traffic, and one lane each for westbound runs, eastbound turn, and continuing southbound. South city limit is 340' feet south of Aten Road. There is an improved curbline on the East side of Clark from Aten to the intersection of Rosarito. All other roadway boundaries are comprised of earth to asphalt.

4 Cross Road

North City Limits to Fonzie are bordered by earth and asphalt boundary on the west and improved curbline to the east. It is four lanes divided and has no addresses facing the roadway and varies from 51.3' to 60.1' in width. Fonzie to Aten varies in width from 60.1' to 31.34 feet and transitions from four (4) lanes of travel to two as it approaches Aten. From Aten to Bernardi, to South City Limit, the roadway is one lane in each direction and varies from 55.7' to 54.5' in width. There are nine intersections of which four are controlled (one traffic light)

5 Brewer Road

Brewer Road is a two lane east/west divided roadway, spanning from City boundary at Austin Road to Nance Road which is a city limit boundary to the east with four (4) intersections none of which interrupt travel. Both Westbound and Eastbound lanes are improved curblines with five condo complexes facing south toward Brewer. Two addresses No earth to asphalt at railroad. Westbound lanes and Eastbound lanes of travel range from 65.75' to 47.8' in width (sans turn lanes) and are comprised on asphalt construction.

6 15th Street

Hwy 86 to N Street is an East/West two lane thoroughfare bordered by improved raised curblines with an asphalt roadway. There are no addresses on the south side of the roadway with one driveway (IID) and two (2) businesses west of Rodeo, on the north side. 15th Ranges from 63.6' in width to 35.5 feet at the railroad crossing.

7 Fonzie Avenue

From Clark Road to dead end at Cross School, Fonzie is an East/West two lane thoroughfare bordered by improved raised curblines with an asphalt roadway. This is a residential area and school zone to the far east portion. The width of Fonzie Avenue is consistently 50.5' to 51.2' and has three (3) controlled intersections and two (2) uncontrolled intersections.

8 La Brucherie

Airport boundary to La Brucherie is bordered by earth and asphalt boundary on the east and improved curbline to the west. It is two lanes divided and has no addresses facing the roadway from the east side (irrigation canal) and five driveways to businesses to the west, having only one intersection with Industry, and varies from 32.2' to 43.5' in width. Aten to South city limit varies in width from 49.7' to 48.2' and transitions from two (2) lanes north of Aten to four (4) lanes of travel to South City Limit with the City of El Centro 9two lanes). There are four additional intersections, three of which are controlled (one traffic light)

9 Monterrey Park Lane

Brewer to Las Cuspides is comprised of asphalt pavement, bordered on both the east

and west side by improved curblines. The roadway varies in width due to lanes of travel and purposely built parking areas, ranging from 59.1' to 49.2' in width. The first two blocks to the south of Brewer are divided at the centerline by a raised island of improved and raised curbline. There are only two lanes, one in each direction for the entirety of Monterey Park Lane which has no controlled intersections.

10 Nance Road

Worthington Road to Brewer Road is comprised of asphalt pavement, bordered on the east side (city boundary) by improved curblines and on the west by earth to roadway boundary, which is the furthest east portion of an irrigation canal (no addresses). The roadway varies in width and is one lane of travel in each direction (north/south). Stop signs are present at the intersections of Brewer and Worthington and the intersection at Banta Road is controlled for east, west travel only. The roadway ranges from 31.8 to 34 feet in width and 2,598 feet in length, having only ten addresses on the east side (all county).

11 P Street

15th Street to East Barioni and East Barioni to 1st Street is comprised of asphalt pavement, bordered by and improved curbline on the east side from first street to 118 feet north of the intersection at 4th street and then earth to roadway until the intersection at Barioni. The west side is bordered by earth to roadway from 1st to Barioni. From Barioni to 15th the west side is bordered by an improved curbline, while the east is ordered by earth to roadway. There are no physical addresses on the east side of P street and eleven physical addresses (businesses and residential) spanning 1.1 miles of roadway.

13 Rodeo Street

15th Street to Neckel, 60.25' to 58.8; is comprised of asphalt pavement, bordered on both the east and west side by improved curblines. The roadway varies in width due to lanes of travel and purposely built parking areas, ranging from 59.1' to 49.2' in width. The first two blocks to the south of Brewer are divided at the centerline by a raised island of improved and raised curbline. There are only two lanes, one in each direction for the entirety of Monterey Park Lane which has no controlled intersections.

14 Sandalwood Glenn Avenue

Boley Field to Aten; Aten to Sagebrush; Sagebrush to Yucca; is comprised of asphalt pavement, bordered on the east side (city boundary) by improved curblines and one the west by earth to roadway boundary, which is the furthest east portion of an irrigation canal (no addresses). The roadway varies in width and is one lane of travel in each direction (north/south). Stop signs are present at the intersections of Brewer and Worthington and the intersection at Banta Road is controlled for east, west travel only. The roadway ranges from 31.8 to 34 feet in width and 2,598 feet in length, having only ten addresses on the east side (all county).

APPENDIX “D”

FIELD SURVEY DATA

1	25	26	18	24	26	30	66	39	50	38	35	29	30	44	25	27	38	52	43	35	56	52	43	42	35	44
2	39	37	31	22	28	23	36	38	45	40	31	24	30	38	20	28	42	43	44	42	51	45	45	45	39	41
3	33	37	27	32	24	28	40	42	49	40	34	30	29	52	18	33	43	45	47	45	50	50	45	36	48	45
4	36	35	34	33	28	23	52	44	44	31	33	25	33	34	24	34	44	47	43	54	38	57	47	42	29	36
5	36	39	29	32	32	23	42	31	39	34	31	28	28	40	31	31	37	43	50	51	44	59	44	38	46	49
6	32	24	34	25	24	28	40	44	52	36	40	30	27	46	30	33	49	47	45	36	48	46	42	42	49	39
7	25	22	32	35	22	26	40	35	47	40	24	33	28	38	34	29	47	45	47	41	47	54	45	36	43	39
8	30	34	30	44	28	25	47	39	63	48	43	31	22	29	29	33	42	41	50	39	51	62	35	37	42	46
9	25	31	29	36	22	24	35	41	38	36	30	21	15	38	23	28	44	42	37	51	49	57	51	45	48	41
10	35	29	32	30	28	25	41	39	54	44	27	28	27	32	32	24	39	43	48	50	52	59	46	45	56	41
11	35	38	32	24	25	22	35	39	34	33	35	27	33	38	23	29	50	45	50	48	53	49	43	41	44	40
12	30	34	30	32	28	21	31	34	48	48	27	32	18	38	33	27	44	43	40	49	56	57	44	35	48	32
13	37	59	35	33	27	23	43	35	32	39	36	29	31	44	24	51	52	40	52	49	62	50	53	35	39	38
14	34	35	30	40	24	26	45	41	52	39	25	23	21	36	32	38	42	43	52	60	58	57	51	44	38	46
15	25	37	30	22	27	23	38	33	55	25	39	22	26	38	27	50	40	46	43	50	50	46	47	44	40	44
16	31	33	25	30	27	28	42	31	46	38	45	23	29	43	34	28	45	44	47	45	52	58	33	40	39	50
17	27	32	26	27	28	28	30	36	60	48	29	26	30	37	35	39	49	48	52	46	58	59	46	40	46	38
18	26	39	28	25	30	26	31	40	47	44	32	25	30	37	29	31	46	38	40	45	50	46	34	42	49	40
19	27	29	29	36	28	26	30	45	42	40	39	27	33	38	22	24	36	42	47	47	64	56	39	46	47	42
20	25	36	27	36	29	33	39	38	50	54	35	32	26	36	24	39	40	45	53	42	42	50	45	34	41	39
21	31	38	29	30	22	26	40	34	53	31	26	34	25	35	27	26	46	37	43	46	64	58	48	52	51	45
22	28	27	28	40	23	28	36	37	49	47	32	32	30	40	26	27	49	42	49	41	63	55	38	37	40	47
23	30	28	30	26	27	26	38	34	40	37	30	29	29	41	33	25	33	42	53	47	43	53	42	36	43	38
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85	24	36	22	27	33	20	31	35	42	29	39	25	27	44	32	25	38	46	42	39	53	48	49	40	41	37
86	33	32	26	34	18	29	42	36	36	37	42	25	42	37	36	27	41	48	42	40	53	52	38	41	36	38

87	27	25	34	32	29	27	33	31	38	49	33	36	26	48	34	29	40	49	37	43	52	50	44	37	44	44
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94	32	25	24	34	26	27	42	32	55	54	33	20	30	42	35	22	55	51	44	35	50	62	34	44	37	42
95	37	42	22	34	28	25	37	30	38	48	32	25	34	41	28	38	41	38	33	45	47	56	37	51	32	42
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100	31	28	27	27	28	15	37	38	41	43	36	26	29	37	23	37	47	50	36	38	52	58	42	41	44	36
85th %	**36**	**38**	**32**	**34**	**31**	**29**	**42**	**41**	**52**	**48**	**39**	**33**	**32**	**43**	**35**	**41**	**48**	**52**	**49**	**48**	**61**	**58**	**49**	**47**	**47**	**47**
Avg.	**31**	**32**	**27**	**29**	**27**	**26**	**37**	**36**	**46**	**41**	**34**	**28**	**28**	**39**	**30**	**33**	**43**	**46**	**41**	**###**	**53**	**53**	**43**	**42**	**42**	**42**
	15th St. HWY 86 to N Street	Brewer Road Between Austin Road and Nance Road	Rodeo Street from 15th Street to Chisolm Trail.	Rodeo Road from Chisolm Trail to Neckel Road	Sandalwood glenn from Boley Ffield to Aten Blvd.	Sandalwood Glenn from Aten Blvd. to Sagebrush Drive.	Nance from Worthington Road to Brewer Road	P Street South of Worthington Roat to 2nd Street	P Street north of Worthington Road to Nance Road	Clark Road from Rosarito Ave. to South City Limit	Cross Road North of Aten Boulevard to Fonzie	Monterrey Park Lane from Costa Azul to southern limit	Fonzie Dr. from Clark Road to East City boundary	LaBrucherie Road Soutn City Limit to Joshua Tree Dr.	Barioni Boulevard from HWY 86 to P Street	Barioni Boulevard from B Street to HWY 86	Aten Road @ HWY 86 to Clark Road E/B	Aten Road @ HWY 86 to Clark Road W/B	Aten Road @ Cross Road to Clark Road W/B	Aten Road @ Cross Road to Clark Road E/B	Aten Road @ Dogwood Road to Cross Road W/B	Aten Road @ Dogwood Road to Cross Road E/B	Aten Road @ Autsin Road to La Brucherie Road W/B	Aten Road @ Autsin Road to La Brucherie Road E/B	Aten Road @ La Brucherie Road to HWY 86 W/B	Aten Road @ La Brucherie Road to HWY 86 E/B

APPENDIX E
CERTIFICATIONS
USER CERTIFICATIONS AND LIDAR CERTIFICATIONS

Certificate of Completion

RIO HONDO COLLEGE

Department of Public Safety Administration of Justice Center
Certifies

Eladio Reyes

as having successfully completed POST Certified Training.

Radar Operator

(24 Hours)

June 5, 2006 – June 7, 2006

Division Dean, Department of Public Safety

Basic Academy Coordinator

Class#179

Your college transcript is the official record of attendance

California Highway Patrol Academy

On recommendation of the staff of the Academy, this

Certificate of Attainment

is awarded to

Eladio Reyes of the Westmorland Police Department

who has successfully fulfilled the requirements approved and certified by the Commission on Peace Officer Standards and Training for

LIDAR OPERATOR

POST Course Number 1270-23320-10047 8 hours Baldwin Park, CA

Completed on the 22nd day of June, Two thousand and eleven.

Commissioner

LIDAR CERTIFICATE OF ACCURACY

I hereby certify the following STALKER® LIDAR Speed Measuring Device Serial # LF008354

Under my supervision, this Speed Measuring Device has been checked for accuracy and correct operation to the manufacturer's specifications. All tests have been performed to meet the NHTSA LIDAR Speed-Measuring Device Performance Specifications - March 2013.

This STALKER® LIDAR Speed Measuring Device is certified accurate within ±1 mph (±1 km/h) for speed measurements and to within ±1 foot (±0.3 meter) for distance measurements.

The Laser wavelength of this Speed Measuring Device has been tested and found to be within the specified limits of 905 ±10 nanometers.

The Laser pulse repetition rate of this Speed Measuring Device has been measured and found to be within the specified limits of 130 ±0.1% pulses per second.

The transmitted power of this Speed Measuring Device has been tested and found to be within the F.D.A. (Food and Drug Administration) standard for a Class 1 Laser device and is determined to be EYESAFE.

All test instruments are traceable to NIST.

Technician (signature) Drew Taylor

Date: 09/09/2025

Technician: Drew Taylor

Tested at aproximately 23°C

Technician overseen by: Wesley Laird

Applied Concepts, Inc. | Richardson, Texas 75081

011-0002-00 Rev K

207381

*LIDAR Certificate of Accuracy and Calibration.

City Council
STAFF REPORT
Document ID: 2026-339
Category: Action Item

Department: Police

Department Head: Aaron Reel, Police Chief

Meeting Date: June 17, 2026

SUBJECT:

1. APPROVAL OF RESOLUTION 2026-27 APPROVING THE ACCEPTANCE OF STATE COPS FUNDING FOR FISCAL YEAR 2024/2025.
2. APPROVAL OF RESOLUTION 2025-28 APPROVING THE ACCEPTANCE OF STATE COPS FUNDING FOR FISCAL YEAR 2024/2025 GROWTH

BACKGROUND:

The County of Imperial Administration Office has allocated $100,000.00 for FY 2024/2025, and $114,624.46 for FY 2024/2025 Growth. The below expenditure plan was developed in connection to the grant requirements. To accept this grant funding, the City is required to adopt a resolution accepting the funds and an expenditure plan outlining the use of those funds. (See Resolution 2026-27 and 2026-28) Contingency funding added to costs due to fluctuating prices, and shipping costs.

The expenditure plan outlines the following Public Safety expenditures.
1. $119,931.64: 2027 Ford Explorer Police Interceptor Utility
   - (2) Ford Explorer Police Interceptors for investigations

2. $4,593.86: CSI Supplies
   - Misc. Supplies for CSI Truck

3. $4,620: Drone
   - DJI Mavic 4 Pro Creator

4. $1,540: Longfri Ballistic Helmet
   - (5) Ballistic Helmets

5. $50,000: Upfitting
   - Upfitting of Patrol Vehicles and Detective Units

6. $33,938.96: Axon
   - Axon Drone Sense Program

FISCAL IMPACT:

None

REQUESTED ACTION:

Adopt Resolution No. 2026-27, RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025

Adopt Resolution No. 2026-28, RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025 GROWTH

CITY MANAGER RECOMMENDATION:

Attachments:

1. Resolution No. 2026-27 COPS Funding 2024-2025
2. Resolution No. 2026-28 COPS Funding 2024-2025 Growth

RESOLUTION NO. 2026-27

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025

WHEREAS, the City of Imperial received funding from the State of California Citizens Options for Public Safety (COPS) Program, and is approved for funding for the program in FY 2024-2025 in the amount of $100,000.00;

WHEREAS, the Imperial Police Department will utilize the aforementioned funds for (2) Investigation Police Explorer Units.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. To authorize the request for funding from the State of California COPS Program for Fiscal Year 2024-2025 in the amount of $100,000.00;

2. To authorize the Imperial Police Department to utilize the funds as outlined, upon receipt of funds from the County Auditor.

PASSED, APPROVED AND ADOPTED by the City Council of the City of Imperial on the 17th day of June, 2026

_____

IDA OBESO-MARTINEZ,
Mayor

ATTEST:

_____

KRISTINA M. SHIELDS,
City Clerk

RESOLUTION NO. 2026-28

RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL APPROVING THE ACCEPTANCE OF STATE CITIZENS OPTIONS FOR PUBLIC SAFETY (COPS) PROGRAM FUNDING FOR FISCAL YEAR 2024-2025 GROWTH

WHEREAS, the City of Imperial received funding from the State of California Citizens Options for Public Safety (COPS) Program, and is approved for funding for the program in FY 2024-2025 Growth in the amount of $114,624.46;

WHEREAS, the Imperial Police Department will utilize the aforementioned funds for (2) Investigation Police Explorer Units, (1) CSI Equipment, (1) Drone, (5) Ballistic Helmets, (4) Upfitting Equipment, and (1) Axon Drone Sense Program.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. To authorize the request for funding from the State of California COPS Program for Fiscal Year 2024-2025 Growth in the amount of $114,624.46;

2. To authorize the Imperial Police Department to utilize the funds as outlined, upon receipt of funds from the County Auditor.

PASSED, APPROVED AND ADOPTED by the City Council of the City of Imperial on the 17th day of June, 2026

_____

IDA OBESO-MARTINEZ,
Mayor

ATTEST:

_____

KRISTINA M. SHIELDS,
City Clerk

City Council
STAFF REPORT

Document ID: 2026-348
Category: Action Item

Department:	Community Development
Department Head:	Othon Mora, Community Development Director
Meeting Date:	June 17, 2026

SUBJECT:

MONTERREY PARK SUBDIVISION NO.2 UNIT 3C – PHASES 68-70

- **LOTS 1 TO 6 PER FM 28/70**
- **LOTS 470 TO 475 PER FM 28/70**
- **LOTS 530 TO 535 PER FM 28/70**

1. **APPROVAL AND ACCEPTANCE OF OFF-SITE STREET IMPROVEMENTS.**
2. **AUTHORIZE PARTIAL RECONVEYANCE TO JUPITER VENTURES I, LP.**

BACKGROUND:

City staff conducted regular field inspections during the construction of the off-site street improvements for Monterrey Park Subdivision No. 2 Unit 3C – Phases 68-70, and a final walk-through inspection was completed on Wednesday, September 17 2025. At this time, the improvements were found to be completed.

The one-year warranty for labor and materials will end on September 17, 2026.

The developer is now requesting a Partial Reconveyance of the above-referenced lots. See FM 28-70 attached herewith for details.

FISCAL IMPACT:

No Fiscal Impact

REQUESTED ACTION:

1. Staff recommends approval and acceptance of off-site street improvements of Monterrey Park Subdivision No.2 Unit 3C - Phases 68-70.
2. Staff recommends authorization of Partial Reconveyance regarding Lots 1 to 6

per FM 28-70, Lots 475 to 470 per FM 28-70 and Lots 535 to 530 per FM 28-70 to Jupiter Ventures I, LP.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Substitution of TrusteePart Recon-Phase 68-70
2. FM 28-72_Monterrey Park 3C_Phases 68-70 Map

EXHIBIT B

RECORDING REQUESTED BY:
First American Title Company-HSD

AND WHEN RECORDED MAIL DOCUMENT TO:
Jupiter Ventures I, LP
32823 Temecula Pkwy, Ste A
Temecula, CA 92592

Vista del Valle
Monterrey Park Sub 2 Unit 3C
Partial Recoveyance

Phases 68-70

Space Above This Line for Recorder's Use Only

A.P.N.:

File No.: VDV-A (KS)

SUBSTITUTION OF TRUSTEE AND DEED OF PARTIAL RECONVEYANCE

The undersigned, The City of Imperial, California, as the owner and holder of the Note secured by that certain Deed of Trust dated February 07, 2024, made by Jupiter Ventures I, LP, as Trustor to First American Title, a California corporation as trustee for The City of Imperial, California, as beneficiary, which Deed of Trust was recorded on April 11, 2024, as Instrument No. 2024005796 of Official Records in the Office of the County Recorder of Imperial, California, hereby substitutes itself, The City of Imperial, California, as Trustee in place of the current Trustee thereunder.

The City of Imperial hereby accepts said appointment as trustee under the above Deed of Trust, and as successor Trustee, and pursuant to the request of said owner and holder and in accordance with the provisions of said Deed of Trust, DOES HEREBY PARTIALLY RECONVEY, WITHOUT WARRANTY, TO THE PERSON OR PERSONS LEGALLY ENTITLED THERETO, the estate as shown on Exhibit "A" attached hereto and made a part hereof, now held by it under said Deed of Trust.

The remaining property described in said Deed of Trust shall continue to be held by said Trustee under the terms thereof as provided in said Deed of Trust. This Partial Reconveyance is made without affecting the personal liability of any person or any entity for the payment of the indebtedness mentioned as secured thereby or the unpaid portion thereof, nor shall it affect any rights or obligations of any of the parties of said Deed of Trust as to the remaining property.

IN WITNESS WHEREOF The City of Imperial, California , as the owner and holder of the above described Note and beneficial interest, and as Successor Trustee, has caused this instrument to be executed, as to each respective interest.

Dated: _____

Beneficiary and Substituted Trustee:

The City of Imperial

By: _____

Name:

Title:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF _____)SS

COUNTY OF _____)

On _____ before me, _____ , Notary Public, personally appeared

_____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. *This area for official notarial seal.*

_____

Notary Signature

Exhibit "A"

Legal Description

Real property in the City of Imperial, County of Imperial, State of California, described as follows:

Lot 1-6, 470-475 and 530-535 of MONTERREY PARK SUBDIVISION NO. 2 – UNIT 3C, in the city of Imperial, county of Imperial, state of California, according to map on file in Book 28, Page(s) 70 through 72 of final maps, in the office of the county recorder of Imperial County.

APN:

Phases 68 - 70

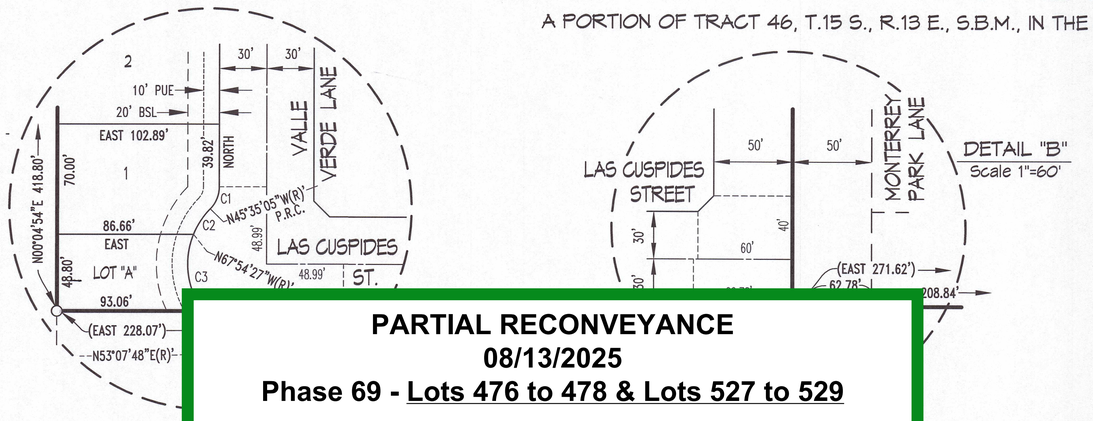
See Sheet 7 of 7

FM B28 P72

MONTERREY PARK SUBDIVISION NO. 2 - UNIT 3C

SHEET 3 OF 3 SHEETS

A PORTION OF TRACT 46, T.15 S., R.13 E., S.B.M., IN THE CITY OF IMPERIAL, COUNTY OF IMPERIAL, STATE OF CALIFORNIA



DETAIL "B"
Scale 1"=60'

LINE DATA TABLE

LINE	BEARING	LENGTH
L1	N45°00'00"E	14.14'
L2	N45°00'00"W	14.14'
L3	NORTH	130.60'

CURVE DATA TABLE- See Details "A" and "B"

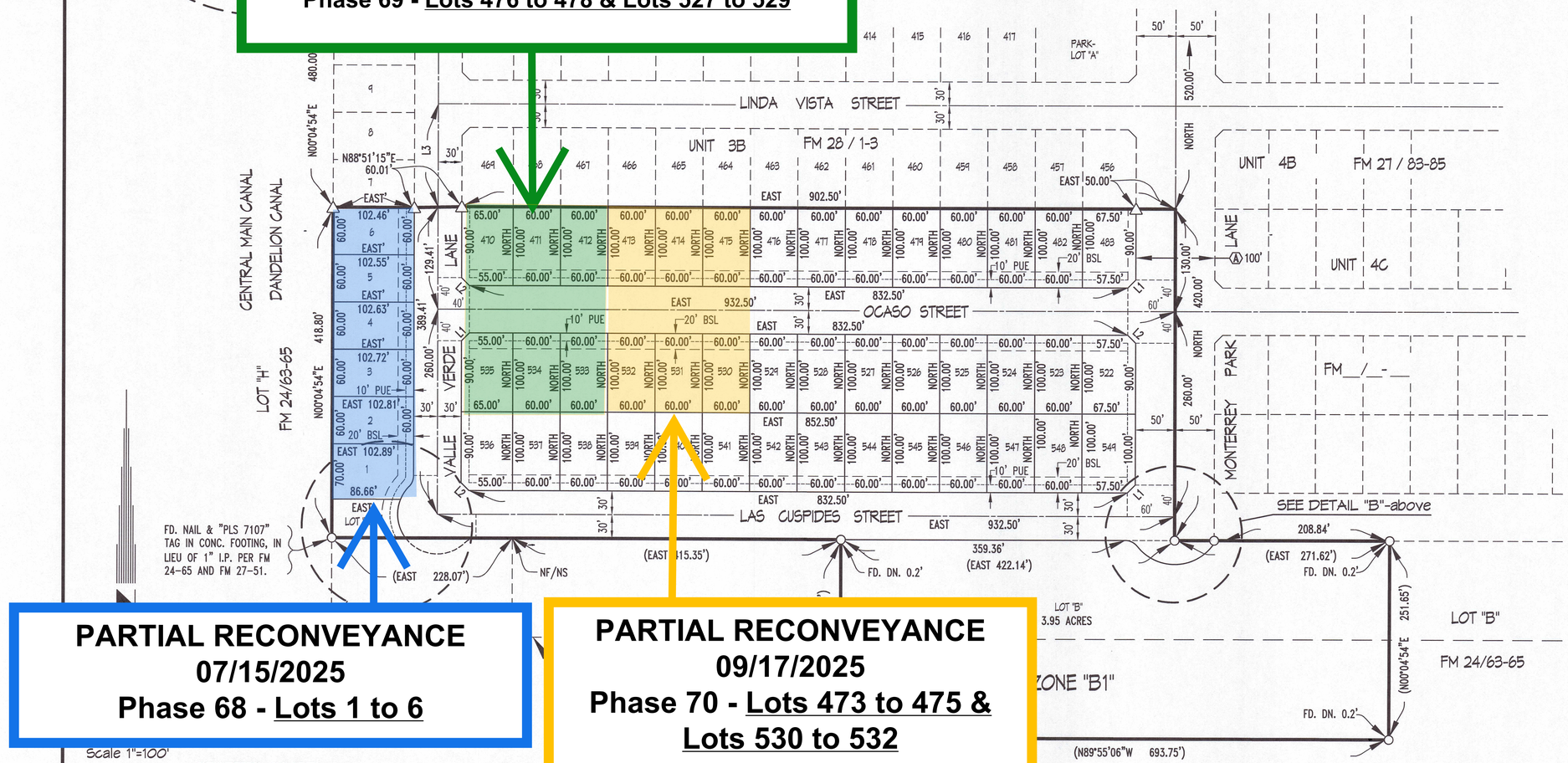
CURVE	DELTA	RADIUS	LENGTH
C1	Δ=44°24'55"	R=20.00'	L=15.50'
C2	Δ=22°19'22"	R=50.00'	L=19.48'
C3	Δ=58°57'45"	R=50.00'	L=51.45'
C4	Δ=51°27'59"	R=20.00'	L=17.97'
C5	Δ=102°55'57"	R=60.26'	L=108.26'

SURVEYOR'S NOTES:

1. UNLESS SHOWN OTHERWISE ON THIS MAP, ALL LOT CORNERS WILL BE MONUMENTED WITH A 1" IRON PIPE TAGGED "LS 8461" WITHIN 90 DAYS OF THE COMPLETION OF PUBLIC IMPROVEMENTS. IF SAID CORNERS FALL IN AREAS OF CONCRETE, A LEAD AND BRASS TAG STAMPED "LS 8461" SHALL BE PLACED INSTEAD OF THE MENTIONED PIPE.

2. SOME INCREMENTAL DISTANCES INDICATED ON THIS MAP MAY NOT SUM TO THE OVERALL DISTANCES INDICATED DUE TO ROUND-OFF ERROR IN THE INCREMENTAL DISTANCES.

PARTIAL RECONVEYANCE
08/13/2025
Phase 69 - Lots 476 to 478 & Lots 527 to 529



PARTIAL RECONVEYANCE
07/15/2025
Phase 68 - Lots 1 to 6

PARTIAL RECONVEYANCE
09/17/2025
Phase 70 - Lots 473 to 475 & Lots 530 to 532

GRAPHIC SCALE
Scale 1"=100'
100 0 50 100 200 300
(IN FEET)
1 inch = 100 ft.

LEGEND:

- ● INDICATES SET 1" IRON PIPE TAGGED "LS 8461", FLUSH, UNLESS NOTED.
- ○ INDICATES FD. ¾" IRON PIPE WITH PLASTIC PLUG STAMPED "PLS 7107", FLUSH, PER FM 27/54-56, UNLESS NOTED. SEE SURVEYOR'S NO. 3 ABOVE.
- □ INDICATES FD. 4" DIA. CONC. CYLINDER STAMPED "PLS 7107", IN MON. WELL BOX, PER FM 27/51-53, UNLESS NOTED.
- △ INDICATES FD. 1" IRON PIPE TAGGED "LS 8461"", FLUSH, PER MONTERREY PARK SUBDIVISION NO. 2- UNIT 3B, PER FM 28/ 1-3, UNLESS NOTED.
- [ ] INDICATES MEASURED AND RECORD DATA PER FINAL MAP OF MONTERREY PARK SUBDIVISION NO. 2, UNIT 3B, AS RECORDED IN BOOK 28 OF FINAL MAPS, PAGES 1-3, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER.
- ( ) INDICATES MEASURED AND RECORD DATA PER FINAL MAP OF MONTERREY PARK SUBDIVISION NO. 2, UNIT 3A, AS RECORDED IN BOOK 27 OF FINAL MAPS, PAGES 51-53, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER.
- (( )) INDICATES MEASURED AND RECORD DATA PER FINAL MAP OF MONTERREY PARK SUBDIVISION NO. 2, UNIT 4A, AS RECORDED IN BOOK 27 OF FINAL MAPS, PAGES 54-56, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER.
- (ALUC) INDICATES AIRPORT LAND USE COMPATIBILITY PLAN WITH 1996 REVISIONS
- PUE INDICATES PUBLIC UTILITY EASEMENT DEDICATED HEREON
- BSL INDICATES BUILDING SETBACK LINE SHOWN HEREON
- Ⓐ INDICATES EASEMENT AS NOTED UNDER SIGNATURE OMISSION STATEMENT ON SHEET 1.
- ——— INDICATES SUBDIVISION BOUNDARY LINE

THE TOTAL AREA WITHIN THE DISTINCTIVE BOUNDARY LINE IS 14.27 ACRES.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CENTERLINE OF LAS LOMAS STREET ACCORDING TO FINAL MAP FOR MONTERREY PARK SUBDIVISION NO. 2, UNIT 3A, AS RECORDED IN BOOK 27 OF FINAL MAPS, PAGES 51-53, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER, BEING "EAST".

RDS AND ASSOCIATES

City Council

STAFF REPORT

Document ID: 2026-349
Category: Action Item

Department:	Community Development
Department Head:	Othon Mora, Community Development Director
Meeting Date:	June 17, 2026

SUBJECT:

MONTERREY PARK SUBDIVISION NO.2 UNIT 3C - PHASE 71

- **LOTS 476 TO 478 PER FM 28/70**
- **LOTS 527 TO 529 PER FM 28/70**

1. **APPROVAL AND ACCEPTANCE OF OFF-SITE STREET IMPROVEMENTS**
2. **AUTHORIZE PARTIAL RECONVEYANCE TO JUPITER VENTURES I, LP.**

BACKGROUND:

City staff conducted regular field inspections during the construction of the off-site street improvements for Monterrey Park Subdivision No. 2 Unit 3C – Phase 71, and a final walk-through was completed on Tuesday, October 14, 2025. At this time, the improvements were found to be completed.

The one-year warranty for labor and materials will end on October 14, 2026.

The developer is now requesting a Partial Reconveyance of the above-referenced lots. See FM 28-70 attached herewith for details.

FISCAL IMPACT:

No Fiscal Impact

REQUESTED ACTION:

1. Staff recommends approval and acceptance of off-site street improvements of Monterrey Park Subdivision No.2 Unit 3C - Phase 71.
2. Staff recommends authorization of Partial Reconveyance regarding Lots 476 to 478 per FM 28-70, Lots 527 to 529 per FM 28-70 to Jupiter Ventures I, LP.

CITY MANAGER RECOMMENDATION:

Attachments:

1. Substitution of TrusteePart Recon-Phase 71
2. FM 28-72_Monterrey Park 3C_Phase 71 Map

EXHIBIT B

RECORDING REQUESTED BY:
First American Title Company-HSD

AND WHEN RECORDED MAIL DOCUMENT TO:
Jupiter Ventures I, LP
32823 Temecula Pkwy, Ste A
Temecula, CA 92592

Vista del Valle
Monterrey Park Sub 2 Unit 3C
Partial Recoveyance

Phase 71

Space Above This Line for Recorder's Use Only

A.P.N.:

File No.: VDV-A (KS)

SUBSTITUTION OF TRUSTEE AND DEED OF PARTIAL RECONVEYANCE

The undersigned, The City of Imperial, California, as the owner and holder of the Note secured by that certain Deed of Trust dated February 07, 2024, made by Jupiter Ventures I, LP, as Trustor to First American Title, a California corporation as trustee for The City of Imperial, California, as beneficiary, which Deed of Trust was recorded on April 11, 2024, as Instrument No. 2024005796 of Official Records in the Office of the County Recorder of Imperial, California, hereby substitutes itself, The City of Imperial, California, as Trustee in place of the current Trustee thereunder.

The City of Imperial hereby accepts said appointment as trustee under the above Deed of Trust, and as successor Trustee, and pursuant to the request of said owner and holder and in accordance with the provisions of said Deed of Trust, DOES HEREBY PARTIALLY RECONVEY, WITHOUT WARRANTY, TO THE PERSON OR PERSONS LEGALLY ENTITLED THERETO, the estate as shown on Exhibit "A" attached hereto and made a part hereof, now held by it under said Deed of Trust.

The remaining property described in said Deed of Trust shall continue to be held by said Trustee under the terms thereof as provided in said Deed of Trust. This Partial Reconveyance is made without affecting the personal liability of any person or any entity for the payment of the indebtedness mentioned as secured thereby or the unpaid portion thereof, nor shall it affect any rights or obligations of any of the parties of said Deed of Trust as to the remaining property.

IN WITNESS WHEREOF The City of Imperial, California , as the owner and holder of the above described Note and beneficial interest, and as Successor Trustee, has caused this instrument to be executed, as to each respective interest.

Dated: _____

Beneficiary and Substituted Trustee:

The City of Imperial

By: _____

Name:

Title:

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF _____)SS

COUNTY OF _____)

On _____ before me, _____ , Notary Public, personally appeared

_____

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal. *This area for official notarial seal.*

_____

Notary Signature

Exhibit "A"

Legal Description

Real property in the City of Imperial, County of Imperial, State of California, described as follows:

Lot 476-478 and 527-529 of MONTERREY PARK SUBDIVISION NO. 2 – UNIT 3C, in the city of Imperial, county of Imperial, state of California, according to map on file in Book 28, Page(s) 70 through 72 of final maps, in the office of the county recorder of Imperial County.

APN:

Phase 71

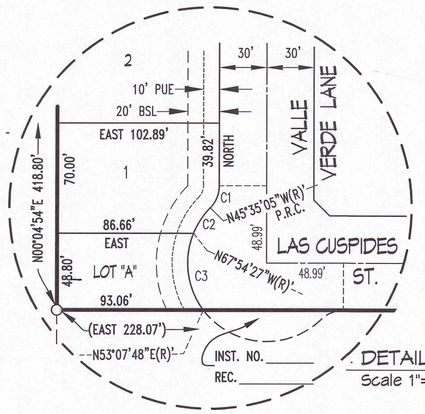
See Sheet 7 of 7

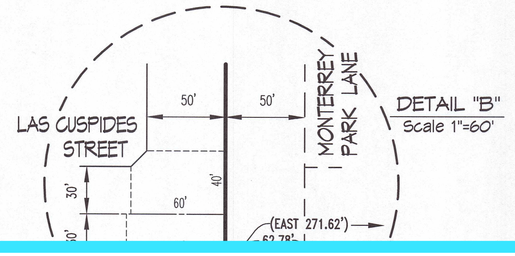
FM B28 P72

MONTERREY PARK SUBDIVISION NO. 2 - UNIT 3C

A PORTION OF TRACT 46, T.15 S., R.13 E., S.B.M., IN THE CITY OF IMPERIAL, COUNTY OF IMPERIAL, STATE OF CALIFORNIA

PARTIAL RECONVEYANCE
10/14/2025
Phase 71 - Lots 476 to 478 & Lots 527 to 529



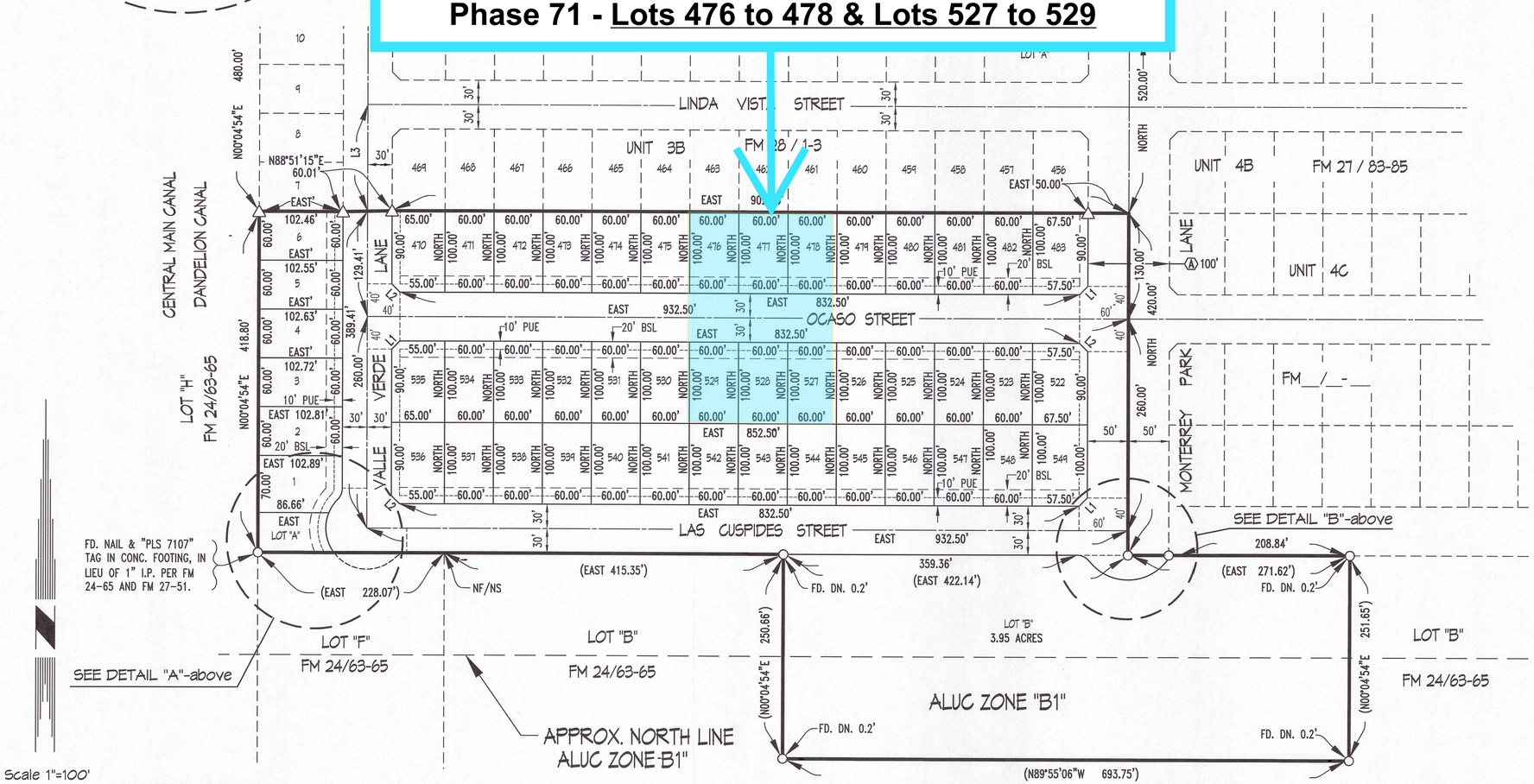


LINE DATA TABLE

LINE	BEARING	LENGTH
L1	N45°00'00"E	14.14'
L2	N45°00'00"W	14.14'
L3	NORTH	130.60'

CURVE DATA TABLE- See Details "A" and "B"

CURVE	DELTA	RADIUS	LENGTH
C1	Δ=44°24'55"	R=20.00'	L=15.50'
C2	Δ=22°19'22"	R=50.00'	L=19.48'
C3	Δ=58°57'45"	R=50.00'	L=51.45'
C4	Δ=51°27'59"	R=20.00'	L=17.97'
C5	Δ=102°55'57"	R=60.26'	L=108.26'



Scale 1"=100'

GRAPHIC SCALE

100 0 50 100 200 300

(IN FEET)
1 inch = 100 ft.

SURVEYOR'S NOTES:

1. UNLESS SHOWN OTHERWISE ON THIS MAP, ALL LOT CORNERS WILL BE MONUMENTED WITH A 1" IRON PIPE TAGGED "LS 8461" WITHIN 90 DAYS OF THE COMPLETION OF PUBLIC IMPROVEMENTS. IF SAID CORNERS FALL IN AREAS OF CONCRETE, A LEAD AND BRASS TAG STAMPED "LS 8461" SHALL BE PLACED INSTEAD OF THE MENTIONED PIPE.

2. SOME INCREMENTAL DISTANCES INDICATED ON THIS MAP MAY NOT SUM TO THE OVERALL DISTANCES INDICATED DUE TO ROUND-OFF ERROR IN THE INCREMENTAL DISTANCES.

LEGEND:

- ● INDICATES SET 1" IRON PIPE TAGGED "LS 8461", FLUSH, UNLESS NOTED.
- ○ INDICATES FD. ¾" IRON PIPE WITH PLASTIC PLUG STAMPED "PLS 7107", FLUSH, PER FM 27/54-56, UNLESS NOTED. SEE SURVEYOR'S NO. 3 ABOVE.
- □ INDICATES FD. 4" DIA. CONC. CYLINDER STAMPED "PLS 7107", IN MON. WELL BOX, PER FM 27/51-53, UNLESS NOTED.
- △ INDICATES FD. 1" IRON PIPE TAGGED "LS 8461"", FLUSH, PER MONTERREY PARK SUBDIVISION NO. 2- UNIT 3B, PER FM 28/ 1-3, UNLESS NOTED.
- [ ] INDICATES MEASURED AND RECORD DATA PER FINAL MAP OF MONTERREY PARK SUBDIVISION NO. 2, UNIT 3B, AS RECORDED IN BOOK 28 OF FINAL MAPS, PAGES 1-3, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER.
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- PUE INDICATES PUBLIC UTILITY EASEMENT DEDICATED HEREON
- BSL INDICATES BUILDING SETBACK LINE SHOWN HEREON
- Ⓐ INDICATES EASEMENT AS NOTED UNDER SIGNATURE OMISSION STATEMENT ON SHEET 1.
- ——— INDICATES SUBDIVISION BOUNDARY LINE

THE TOTAL AREA WITHIN THE DISTINCTIVE BOUNDARY LINE IS 14.27 ACRES.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS BASED ON THE CENTERLINE OF LAS LOMAS STREET ACCORDING TO FINAL MAP FOR MONTERREY PARK SUBDIVISION NO. 2, UNIT 3A, AS RECORDED IN BOOK 27 OF FINAL MAPS, PAGES 51-53, IN THE OFFICE OF THE IMPERIAL COUNTY RECORDER, BEING "EAST".

RDS AND ASSOCIATES

City Council
STAFF REPORT
Document ID: 2026-357
Category: Action Item

Department: Finance

Department Head: Victor Manriquez, Finance Director

Meeting Date: June 17, 2026

SUBJECT:

ADOPTION OF THE CITY OF IMPERIAL MUNICIPAL BUDGET FOR FISCAL YEAR 2026-27.

BACKGROUND:

The City Council reviewed the proposed Fiscal Year (FY) 2026-2027 Budget during its budget workshop held on May 13, 2026. The attached budget document reflects funding for the programs, projects, services, and priorities that align with the City Council's goals and objectives.

The proposed FY 2026-2027 Budget is a balanced spending plan, as detailed in the line-item budget schedules attached to Resolution No. 2026-41. The General Fund budget includes a projected surplus of approximately $190,700, which will remain available for future appropriation by the City Council as needed.

The General Fund budget is fully funded. All other governmental funds, including Special Revenue, Debt Service, and Capital Project funds, as well as proprietary funds, including Enterprise and Internal Service funds, are supported through a combination of current-year revenues, grant funding, and available fund balances. Salary and benefit appropriations reflected in the budget are based on current assumptions and existing labor agreements. Following the completion of ongoing labor negotiations, staff will return to the City Council with proposed budget amendments to update salary and benefit accounts in the General Fund and Enterprise Funds, as necessary.

The Capital Improvement Program (CIP) budget will be presented separately for City Council consideration and adoption in September as part of the City's five-year CIP planning update.

Also included with Resolution No. 2026-41 is an organizational chart authorizing 160.25 full-time equivalent (FTE) positions for FY 2026-2027, including five new positions consisting of four full-time positions and one part-time position, as discussed during the May 13, 2026 budget workshop.

While the proposed FY 2026-2027 Budget is balanced and financially sustainable, economic conditions remain uncertain. Factors such as federal fiscal and monetary policy, inflationary pressures, and broader economic and geopolitical developments continue to create challenges for local governments. Accordingly, the proposed budget reflects a conservative and prudent financial approach. Staff will continue to closely monitor economic conditions and provide recommendations to the City Council as circumstances warrant.

FISCAL IMPACT:

The Budget appropriations for FY 2026-2027 are as detailed in the attachment of the enabling Budget Resolution #2026-41.

REQUESTED ACTION:

Approve and adopt Resolution No. 2026-41 A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA APPROVING THE ANNUAL BUDGET FOR THE FISCAL YEAR THAT BEGINS ON JULY 1, 2026, AND ENDS ON JUNE 30, 2027.

CITY MANAGER RECOMMENDATION:

Adopt the FY 2026-2027 Municipal Budget for all funds and operating departments of the City for each budget line item as presented and attached to the enabling Budget adoption Resolution #2026-41.

Attachments:

1. RESOLUTION NO. 2026-41 (FY 2027 BUDGET ADOPTION)
2. Final Budget FY 2026-27 (Reso 2026-41)
3. FY 2026 - 2027 Personnel Budget Request
4. Budget Org Charts FY 2026-27

RESOLUTION NO. 2026-41

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF IMPERIAL, CALIFORNIA APPROVING THE ANNUAL BUDGET FOR THE FISCAL YEAR THAT BEGINS ON JULY 1, 2026, AND ENDS ON JUNE 30, 2027

BE IT AND IT IS HEREBY RESOLVED by the City Council of the City of Imperial as follows:

WHEREAS, the City of Imperial is required to adopt an annual budget and spending plan on or before June 30 of each fiscal year to ensure the continued operation of City services beginning July 1 of the ensuing fiscal year; and

WHEREAS, on May 13, 2026, the City Council was presented with the highlights of the programs, projects, priorities, revenues, and expenditures included in the proposed Fiscal Year 2026-2027 City Budget; and

WHEREAS, the proposed budget constitutes a balanced spending plan and includes an estimated General Fund surplus of $190,700 available for appropriation as necessary during Fiscal Year 2026-2027; and

WHEREAS, the budget is based upon current salary and benefit assumptions and will be amended following the completion of ongoing labor negotiations, at which time salary and benefit accounts will be updated and may require the appropriation of available surplus funds or result in changes to the projected fund balance.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Imperial as follows:

1. The Fiscal Year 2026-2027 City Budget, including all estimated revenues, appropriations, and expenditures contained therein, is hereby approved.
2. The Fiscal Year 2026-2027 Organizational Chart, including 160.25 full-time equivalent (FTE) authorized positions, including five (5) new positions, is hereby approved.
3. Upon adoption of this Resolution, all approved budget appropriations shall be entered into the City's Fund Balance Accounting System and posted to the Fiscal Year 2026-2027 general ledger in accordance with the budget document and its attachments, which identify the line-item appropriations for each City fund and department.

_____
Ida Obeso-Martinez, Mayor
City of Imperial

ATTEST:

_____
City Clerk
City of Imperial

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Revenues								
Dept: 000								
4110 PROPERTY TAXES - SECURED	3,707,235	2,016,500	2,016,500	2,276,431	0	2,400,000	2,400,000	
4111 PROPERTY TAXES - UNSECURED	18,504	177,900	177,900	280,056	0	200,000	200,000	
4112 PROPERTY TRANSFER TAX	72,280	85,100	85,100	65,337	0	85,100	85,100	
4113 AIRCRAFT TAX	12,119	52,200	52,200	46,380	0	52,200	52,200	
4120 SALES TAX	3,497,388	3,497,700	3,497,700	2,590,066	0	3,400,000	3,400,000	
4121 CANNABIS BUSINESS TAX	265,966	281,300	281,300	126,166	0	150,000	150,000	
4130 FRANCHISES	463,010	420,900	420,900	308,229	0	400,000	400,000	
4140 TRANSIENT OCCUPANCY TAX	566,447	418,200	418,200	381,444	0	418,200	418,200	
4141 TOT SHARING AGREEMENT	0	0	0	-139,107	0	140,000	140,000	
4210 BUSINESS LICENSES	64,956	78,800	78,800	69,923	0	78,800	78,800	
4230 ANIMAL LICENSES	6,782	8,400	8,400	7,550	0	8,400	8,400	
4240 BUILDING (WORK) PERMITS	490,741	612,000	612,000	542,742	0	612,000	612,000	
4311 LOCAL COURT FINES	9,867	9,400	9,400	8,645	0	9,400	9,400	
4330 UTILITY PENALTIES	202,831	199,200	199,200	183,023	0	199,200	199,200	
4333 CODE ENFORCEMENT FINES	1,750	3,200	3,200	925	0	2,000	2,000	
4335 LICENSE PENALTIES	1,525	3,100	3,100	2,377	0	3,100	3,100	
4410 MOTOR VEHICLE IN LIEU	2,495,973	2,650,000	2,650,000	2,653,121	0	2,800,000	2,800,000	
4430 HOMEOWNERS EXEMPTION	18,451	6,200	6,200	10,796	0	12,000	12,000	
4431 HOUSING AUTHORITY IN LIEU	2,547	2,600	2,600	2,598	0	2,600	2,600	
4441 LOCAL GOVT GRANTS	14,660	0	0	198,268	0	130,000	130,000	
4468 STATE GRANT - OTS GRANT	0	0	0	15,560	0			
4469 SCHOOL RESOURCE OFFICER	137,117	145,600	145,600	123,090	0	145,600	145,600	
4473 HIDTA	170,376	133,600	133,600	31,403	0	80,000	80,000	
4480 STONEGARDEN	106,366	49,600	49,600	88,809	0	100,000	100,000	
4483 DHE OVERTIME	0	0	0	606	0			
4485 Homeland Security	35,564	30,000	30,000	8,188	0	30,000	30,000	
4509 FIRE INSPECTION & MISC FEES	55,386	55,000	55,000	33,177	0	40,000	40,000	
4510 ZONING/SUBDIVISION FEES	38,656	36,300	36,300	40,842	0	45,000	45,000	
4521 PLAN CK/ENG/ENCROACHMENT FEES	157,566	142,800	142,800	59,548	0	80,000	80,000	
4522 SEISMIC FEES	4,184	4,200	4,200	1,610	0	4,200	4,200	
4523 CBSC	40,417	6,600	6,600	40,703	0	40,000	40,000	
4526 RECYCLING	7,423	7,200	7,200	6,539	0	7,200	7,200	
4533 POOL REVENUES	23,607	20,800	20,800	21,718	0	24,000	24,000	
4534 RECREATION / RENTAL FEES	5,295	4,700	4,700	3,544	0	4,700	4,700	
4535 ADMINISTRATIVE SERVICES	12,690	6,700	6,700	12,851	0	6,700	6,700	
4536 RECREATION PROGRAMS	30,865	40,800	40,800	26,328	0	40,800	40,800	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Revenues								
Dept: 000								
4540 LIBRARY FEES	3,334	5,500	5,500	3,557	0	5,500	5,500	
4610 INTEREST EARNED	398,694	480,000	480,000	137,279	0	480,000	480,000	
4700 SIGNATURE EVENT FEES	82,278	85,000	85,000	64,818	0	85,000	85,000	
4701 SPONSORSHIP (COM SERVICES)	53,750	54,700	54,700	79,000	0	80,000	80,000	
4710 SALE OF MAPS, PUBS & COPIES	914	200	200	119	0	200	200	
4721 POLICE - OTHER	23,772	25,500	25,500	29,672	0	25,500	25,500	
4724 POST REIMBURSEMENT	11,530	12,600	12,600	12,621	0	12,600	12,600	
4727 POLICE DETAILS	161	1,000	1,000	3,636	0	1,000	1,000	
4734 3% Youth Programs (Cannabis)	3,094	60,000	60,000	16,056	0	20,000	20,000	
4735 5% Public Safety (Cannabis)	5,157	110,000	110,000	23,944	0	40,000	40,000	
4740 INSURANCE DIVIDENDS	1,656	1,000	1,000	1,781	0	2,000	2,000	
4741 W/C INSURANCE CLAIMS	123,473	50,000	50,000	71,636	0	100,000	100,000	
4742 INSURANCE CLAIMS	20,857	10,200	10,200	145,560	0	25,000	25,000	
4790 NOT OTHERWISE CLASSIFIED	67,459	10,000	10,000	11,637	0	10,000	10,000	
4910 OPERATING TRANSFERS IN	6,049,300	7,066,000	7,066,000	5,250,750	0	6,400,000	6,400,000	
Total Revenues	19,583,973	19,178,300	19,178,300	15,981,552	0	19,038,000	19,038,000	0
Expenditures								
Dept: 100 CITY COUNCIL								
5102 SALARIES - PART TIME	34,200	43,200	43,200	39,600	0	43,200	43,200	
5112 FICA	2,871	3,400	3,400	4,044	0	3,400	3,400	
5114 UNEMPLOYMENT INS.	871	0	0	739	0			
5115 HEALTH INSURANCE	18,122	21,800	21,800	12,328	0	21,800	21,800	
5123 WELLNESS PROGRAM	1,234	1,200	1,200	941	0	1,200	1,200	
5250 PUBLICATION/DUES	0	500	500	175	0	500		
5260 TELEPHONE	2,440	3,000	3,000	2,090	0	3,000	3,000	
5265 TRAINING/EDUCATION	3,763	4,500	4,500	2,575	0	4,500	4,500	
5270 TRAVEL & MEETINGS	6,632	15,000	15,000	16,337	0	18,000	18,000	
5301 OFFICE SUPPLIES	466	700	700	384	0	700	700	
5330 SPECIAL DEPARTMENTAL SUPPLIES	693	2,000	2,000	672	0	2,000	1,000	
Dept: 110 CITY CLERK								
5102 SALARIES - PART TIME	4,800	4,800	4,800	4,400	0	4,800	4,800	
5112 FICA	367	400	400	337	0	400	400	
5114 UNEMPLOYMENT INS.	115	200	200	110	0	200	200	
5201 ADVERTISING (INCL LEGAL)	1,101	2,500	2,500	756	0	2,500	1,500	
5260 TELEPHONE	1,430	2,000	2,000	899	0	2,000	1,500	
5270 TRAVEL & MEETINGS	715	5,000	5,000	609	0	5,000	1,000	
5301 OFFICE SUPPLIES	1,040	1,200	1,200	815	0	1,200	1,200	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 110 CITY CLERK								
5330 SPECIAL DEPARTMENTAL SUPPLIES	441	1,500	1,500	658	0	1,500	1,000	
Dept: 120 CITY ATTORNEY								
5205 PROFESSIONAL SERVICES	0	24,000	24,000	25,412	0	150,000	250,000	
5210 CONTRACT SERVICE	96,000	96,000	96,000	57,000	0	200,000	240,000	
Dept: 130 CITY MANAGER								
5101 SALARIES - FULL TIME	450,666	537,400	537,400	513,142	0	537,400	537,400	
5108 SPECIALTY PAY	3,084	4,700	4,700	1,708	0	4,700	4,700	
5111 RETIREMENT	52,710	45,700	45,700	32,842	0	45,700	45,700	
5112 FICA	31,858	42,100	42,100	34,759	0	42,100	42,100	
5113 WORKER'S COMP	9,400	12,600	12,600	11,600	0	12,600	12,600	
5114 UNEMPLOYMENT INS.	672	1,000	1,000	728	0	1,000	1,000	
5115 HEALTH INSURANCE	28,124	11,400	11,400	24,200	0	11,400	11,400	
5116 HEALTH INS IN LIEU PMTS	11,800	14,400	14,400	8,800	0	14,400	14,400	
5120 VEHICLE ALLOWANCE	6,000	6,000	6,000	5,500	0	6,000	6,000	
5123 WELLNESS PROGRAM	0	0	0	376	0			
5210 CONTRACT SERVICE	239,080	220,000	220,000	290,712	0	220,000	220,000	
5250 PUBLICATION/DUES	3,070	3,500	3,500	3,250	0	3,500	3,500	
5260 TELEPHONE	1,474	3,400	3,400	1,749	0	3,400	2,400	
5265 TRAINING/EDUCATION	3,485	6,000	6,000	4,779	0	6,000	6,000	
5270 TRAVEL & MEETINGS	8,409	15,500	15,500	6,324	0	15,500	15,500	
5301 OFFICE SUPPLIES	1,029	2,000	2,000	1,046	0	2,000	2,000	
5310 SAFETY/EQUIPMENT/CLOTHING	245	300	300	223	0	300	300	
5330 SPECIAL DEPARTMENTAL SUPPLIES	2,709	8,000	8,000	361	0	8,000	4,000	
Dept: 140 ADMIN/FINANCIAL SERVICES								
5101 SALARIES - FULL TIME	524,609	581,400	581,400	526,215	0	581,400	581,400	
5103 OVERTIME	92	500	500	37	0	500	500	
5108 SPECIALTY PAY	1,450	2,000	2,000	2,198	0	2,000	2,000	
5111 RETIREMENT	68,090	49,400	49,400	42,365	0	49,400	49,400	
5112 FICA	41,641	45,100	45,100	41,070	0	45,100	45,100	
5113 WORKER'S COMP	18,800	22,100	22,100	21,100	0	22,100	22,100	
5114 UNEMPLOYMENT INS.	1,273	1,500	1,500	1,358	0	1,500	1,500	
5115 HEALTH INSURANCE	50,733	34,200	34,200	37,785	0	34,200	34,200	
5116 HEALTH INS IN LIEU PMTS	17,200	19,200	19,200	17,600	0	19,200	19,200	
5123 WELLNESS PROGRAM	900	1,200	1,200	251	0	1,200	1,200	
5260 TELEPHONE	1,838	1,900	1,900	1,369	0	1,900	1,900	
5265 TRAINING/EDUCATION	1,050	5,000	5,000	859	0	5,000	2,500	
5270 TRAVEL & MEETINGS	1,943	5,000	5,000	1,317	0	5,000	2,500	
5301 OFFICE SUPPLIES	2,592	2,500	2,500	2,613	0	2,500	3,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 140 ADMIN/FINANCIAL SERVICES								
5310 SAFETY/EQUIPMENT/CLOTHING	300	300	300	300	0	300	500	
5330 SPECIAL DEPARTMENTAL SUPPLIES	495	500	500	166	0	500	500	
Dept: 141 ACCOUNTING AND REPORTING								
5210 CONTRACT SERVICE	95,645	80,000	80,000	89,888	0	80,000	70,000	
5213 STATE MANDATED FEE	323	0	0	352	0	400	400	
Dept: 150 HUMAN RESOURCES MANAGEMENT								
5101 SALARIES - FULL TIME	294,436	312,900	312,900	299,524	0	312,900	312,900	
5111 RETIREMENT	40,574	30,100	30,100	27,561	0	30,100	30,100	
5112 FICA	22,453	24,200	24,200	22,152	0	24,200	24,200	
5113 WORKER'S COMP	9,400	9,500	9,500	8,500	0	9,500	9,500	
5114 UNEMPLOYMENT INS.	504	1,100	1,100	546	0	1,100	1,100	
5115 HEALTH INSURANCE	23,142	22,800	22,800	19,100	0	22,800	22,800	
5116 HEALTH INS IN LIEU PMTS	6,200	4,800	4,800	4,400	0	4,800	4,800	
5210 CONTRACT SERVICE	306,320	300,000	300,000	149,959	0	300,000	240,000	
5230 GENERAL LIABILITY INSURANCE	144,473	0	0	2,910	0			
5250 PUBLICATION/DUES	1,364	2,500	2,500	4,391	0	2,500	6,000	
5260 TELEPHONE	1,000	1,600	1,600	1,032	0	1,600	1,200	
5262 TESTING SERVICES	28,386	25,000	25,000	20,293	0	25,000	20,000	
5265 TRAINING/EDUCATION	6,181	10,000	10,000	199	0	10,000	5,000	
5270 TRAVEL & MEETINGS	15,562	10,000	10,000	11,086	0	10,000	10,000	
5301 OFFICE SUPPLIES	1,887	4,000	4,000	3,632	0	4,000	4,000	
5310 SAFETY/EQUIPMENT/CLOTHING	252	400	400	251	0	400	400	
5330 SPECIAL DEPARTMENTAL SUPPLIES	28,655	45,000	45,000	29,128	0	45,000	40,000	
Dept: 190 GENERAL SERVICES								
5101 SALARIES - FULL TIME	40,995	0	0	-208,895	0			
5111 RETIREMENT	2,871	239,000	239,000	239,647	0	239,000	239,000	
5112 FICA	0	0	0	481	0			
5114 UNEMPLOYMENT INS.	1,048	0	0	973	0			
5125 PAYROLL ALLOCATION CHARGES	4,267	0	0	438	0			
5210 CONTRACT SERVICE	69,311	80,000	80,000	41,714	0	80,000	80,000	
5230 GENERAL LIABILITY INSURANCE	0	165,000	165,000	165,172	0	165,000	165,000	
5241 MAINTENANCE OF EQUIPMENT	216	300	300	209	0	300	300	
5242 VEHICLE FUEL	674	600	600	418	0	600	600	
5243 VEHICLE LEASES	10,090	10,100	10,100	9,250	0	10,100	10,100	
5250 PUBLICATION/DUES	14,512	20,000	20,000	14,881	0	20,000	15,000	
5260 TELEPHONE	6,578	7,000	7,000	1,489	0	7,000	2,000	
5280 UTILITIES - ELECTRIC	47,031	48,000	48,000	35,242	0	48,000	40,000	
5281 UTILITIES - GAS	208	400	400	184	0	400	400	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 190 GENERAL SERVICES								
5301 OFFICE SUPPLIES	7,475	6,000	6,000	5,059	0	6,000	6,000	
5303 BANK CHARGES	92,489	80,000	80,000	75,776	0	80,000	80,000	
5305 POSTAGE/FREIGHT	10,175	12,000	12,000	10,047	0	12,000	10,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	3,857	4,000	4,000	2,333	0	4,000	4,000	
5442 EQUIPMENT - OTHER	6,495	8,000	8,000	6,374	0	8,000	8,000	
5540 PROPERTY TAXES	1,733	2,000	2,000	1,720	0	2,000	2,000	
5910 OPERATING TRANSFERS OUT	448,125	726,200	726,200	544,650	0	726,200	720,000	
Dept: 210 POLICE MANAGEMENT SERVICES								
5101 SALARIES - FULL TIME	923,246	928,200	928,200	899,271	0	928,200	928,200	
5103 OVERTIME	77,637	70,000	70,000	77,121	0	70,000	70,000	
5104 COURT/TRAVEL/STANDBY	20,209	20,000	20,000	18,819	0	20,000	20,000	
5105 CERTIFICATE PAY	40,950	41,000	41,000	37,800	0	41,000	41,000	
5107 SHIFT DIFFERENTIAL	7,900	11,700	11,700	6,600	0	11,700	11,700	
5108 SPECIALTY PAY	9,795	9,800	9,800	12,484	0	9,800	9,800	
5111 RETIREMENT	186,014	173,100	173,100	161,727	0	173,100	173,100	
5112 FICA	84,319	77,200	77,200	77,371	0	77,200	77,200	
5113 WORKER'S COMP	22,000	25,200	25,200	24,200	0	25,200	25,200	
5114 UNEMPLOYMENT INS.	1,344	2,500	2,500	1,456	0	2,500	2,500	
5115 HEALTH INSURANCE	60,816	55,600	55,600	48,339	0	55,600	55,600	
5116 HEALTH INS IN LIEU PMTS	19,200	19,200	19,200	17,600	0	19,200	19,200	
5123 WELLNESS PROGRAM	1,340	1,800	1,800	795	0	1,800	1,800	
5124 EDUCATION INCENTIVE	5,700	5,900	5,900	4,650	0	5,900	5,900	
5210 CONTRACT SERVICE	2,020	2,000	2,000	1,470	0	2,000	2,100	
5250 PUBLICATION/DUES	727	1,200	1,200	175	0	1,200	1,200	
5265 TRAINING/EDUCATION	6,029	6,000	6,000	2,589	0	6,000	6,300	
5270 TRAVEL & MEETINGS	10,627	10,000	10,000	7,200	0	10,000	10,500	
5310 SAFETY/EQUIPMENT/CLOTHING	12,000	13,000	13,000	12,092	0	13,000	13,650	
5330 SPECIAL DEPARTMENTAL SUPPLIES	11,371	15,000	15,000	9,497	0	15,000	15,750	
5332 Cannabis CUP Funding	24,991	25,000	25,000	14,119	0	25,000	5,000	
Dept: 211 POLICE FIELD SERVICES								
5101 SALARIES - FULL TIME	1,171,446	1,253,000	1,253,000	1,044,044	0	1,253,000	1,253,000	
5103 OVERTIME	190,901	190,000	190,000	214,707	0	190,000	190,000	
5104 COURT/TRAVEL/STANDBY	18,552	26,800	26,800	18,301	0	26,800	26,800	
5105 CERTIFICATE PAY	38,850	39,000	39,000	33,000	0	39,000	39,000	
5107 SHIFT DIFFERENTIAL	16,800	24,000	24,000	19,650	0	24,000	24,000	
5108 SPECIALTY PAY	25,434	21,700	21,700	23,023	0	21,700	21,700	
5111 RETIREMENT	340,992	489,000	489,000	448,545	0	489,000	489,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 211 POLICE FIELD SERVICES								
5112 FICA	106,116	103,800	103,800	99,871	0	103,800	103,800	
5113 WORKER'S COMP	47,100	50,500	50,500	49,500	0	50,500	50,500	
5114 UNEMPLOYMENT INS.	3,024	5,800	5,800	3,265	0	5,800	5,800	
5115 HEALTH INSURANCE	123,769	136,800	136,800	100,405	0	136,800	136,800	
5116 HEALTH INS IN LIEU PMTS	18,000	19,200	19,200	12,400	0	19,200	19,200	
5123 WELLNESS PROGRAM	1,609	2,000	2,000	445	0	2,000	2,000	
5241 MAINTENANCE OF EQUIPMENT	55,564	30,000	30,000	66,003	0	30,000	50,000	
5242 VEHICLE FUEL	67,880	70,000	70,000	63,099	0	70,000	75,000	
5243 VEHICLE LEASES	9,864	10,000	10,000	9,050	0	10,000	10,000	
5265 TRAINING/EDUCATION	12,111	17,000	17,000	5,622	0	17,000	12,600	
5270 TRAVEL & MEETINGS	19,597	25,700	25,700	20,642	0	25,700	33,300	
5301 OFFICE SUPPLIES	3,766	5,000	5,000	5,633	0	5,000	6,000	
5310 SAFETY/EQUIPMENT/CLOTHING	26,947	27,500	27,500	24,313	0	27,500	27,500	
5321 ARMORY/SUPPLIES	29,088	15,000	15,000	14,052	0	15,000	17,250	
5330 SPECIAL DEPARTMENTAL SUPPLIES	2,986	700	700	416	0	700	1,400	
5442 EQUIPMENT - OTHER	4,456	5,500	5,500	4,940	0	5,500	5,500	
Dept: 213 COMMUNICATIONS								
5210 CONTRACT SERVICE	438,619	415,000	415,000	337,764	0	415,000	430,000	
5260 TELEPHONE	51,649	50,000	50,000	45,255	0	50,000	52,500	
5280 UTILITIES - ELECTRIC	1,877	1,000	1,000	285	0	1,000	1,000	
Dept: 214 POLICE SPECIAL PROGRAM SERVICE								
5332 Cannabis CUP Funding	106,278	95,000	95,000	36,340	0	95,000	95,000	
Dept: 215 POLICE RECORDS								
5101 SALARIES - FULL TIME	317,867	343,100	343,100	287,294	0	343,100	343,100	
5103 OVERTIME	2,956	3,500	3,500	2,605	0	3,500	3,500	
5108 SPECIALTY PAY	3,400	3,900	3,900	3,125	0	3,900	3,900	
5111 RETIREMENT	39,098	34,200	34,200	25,837	0	34,200	34,200	
5112 FICA	25,536	27,300	27,300	23,095	0	27,300	27,300	
5113 WORKER'S COMP	15,700	15,800	15,800	14,800	0	15,800	15,800	
5114 UNEMPLOYMENT INS.	840	1,300	1,300	1,092	0	1,300	1,300	
5115 HEALTH INSURANCE	37,557	38,200	38,200	29,706	0	38,200	38,200	
5116 HEALTH INS IN LIEU PMTS	9,600	9,600	9,600	8,800	0	9,600	9,600	
5123 WELLNESS PROGRAM	900	1,200	1,200	300	0	1,200	1,200	
5124 EDUCATION INCENTIVE	1,950	2,000	2,000	4,050	0	2,000	2,000	
5250 PUBLICATION/DUES	130	200	200	190	0	200	200	
5265 TRAINING/EDUCATION	1,597	2,500	2,500	2,495	0	2,500	2,000	
5270 TRAVEL & MEETINGS	3,047	3,000	3,000	2,569	0	3,000	2,000	
5301 OFFICE SUPPLIES	1,189	1,200	1,200	1,099	0	1,200	900	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 215 POLICE RECORDS								
5310 SAFETY/EQUIPMENT/CLOTHING	3,125	3,200	3,200	3,125	0	3,200	2,600	
Dept: 216 K-9 SERVICES								
5330 SPECIAL DEPARTMENTAL SUPPLIES	0	0	0	28	0			
Dept: 220 FIRE								
5210 CONTRACT SERVICE	1,304,451	1,600,000	1,600,000	934,130	0	1,600,000	1,600,000	
Dept: 230 ANIMAL CONTROL								
5101 SALARIES - FULL TIME	68,286	67,500	67,500	24,354	0	67,500	67,500	
5103 OVERTIME	261	800	800	492	0	800	800	
5111 RETIREMENT	8,991	9,400	9,400	1,939	0	9,400	9,400	
5112 FICA	5,316	5,300	5,300	1,645	0	5,300	5,300	
5113 WORKER'S COMP	3,100	3,200	3,200	2,200	0	3,200	3,200	
5114 UNEMPLOYMENT INS.	168	400	400	332	0	400	400	
5115 HEALTH INSURANCE	8,321	11,400	11,400	4,900	0	11,400	11,400	
5210 CONTRACT SERVICE	30,487	15,000	15,000	14,972	0	15,000	15,000	
5241 MAINTENANCE OF EQUIPMENT	2,713	2,000	2,000	357	0	2,000	4,000	
5242 VEHICLE FUEL	3,007	5,000	5,000	3,752	0	5,000	5,750	
5265 TRAINING/EDUCATION	751	3,000	3,000	1,680	0	3,000	1,500	
5280 UTILITIES - ELECTRIC	0	6,000	6,000	1,056	0	6,000	2,000	
5301 OFFICE SUPPLIES	255	300	300	18	0	300	300	
5302 CUSTODIAL SUPPLIES	0	3,000	3,000	41	0	3,000	1,000	
5310 SAFETY/EQUIPMENT/CLOTHING	784	700	700	1,186	0	700	700	
5330 SPECIAL DEPARTMENTAL SUPPLIES	2,061	4,000	4,000	1,686	0	4,000	3,000	
5430 IMPROVEMENTS OTHER THAN BLDGS	0	2,000	2,000	1,334	0	2,000	2,000	
Dept: 300 PUBLIC SERVICES MANAGEMENT								
5101 SALARIES - FULL TIME	334,800	398,800	398,800	273,410	0	398,800	398,800	
5108 SPECIALTY PAY	0	17,000	17,000	2,120	0	17,000	17,000	
5111 RETIREMENT	49,358	31,800	31,800	21,582	0	31,800	31,800	
5112 FICA	24,856	31,100	31,100	19,759	0	31,100	31,100	
5113 WORKER'S COMP	6,300	9,500	9,500	8,500	0	9,500	9,500	
5114 UNEMPLOYMENT INS.	493	600	600	546	0	600	600	
5115 HEALTH INSURANCE	23,872	34,200	34,200	17,500	0	34,200	34,200	
Dept: 305 CODE ENFORCEMENT-NUSIANCE ABAT								
5101 SALARIES - FULL TIME	83,985	121,000	121,000	85,279	0	121,000	121,000	
5103 OVERTIME	270	500	500	4,260	0	500	500	
5108 SPECIALTY PAY	200	0	0	1,200	0			
5111 RETIREMENT	11,235	9,800	9,800	6,884	0	9,800	9,800	
5112 FICA	7,524	9,500	9,500	7,248	0	9,500	9,500	
5113 WORKER'S COMP	6,300	6,300	6,300	5,300	0	6,300	6,300	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 305 CODE ENFORCEMENT-NUSIANCE ABAT								
5114 UNEMPLOYMENT INS.	494	600	600	182	0	600	600	
5115 HEALTH INSURANCE	7,892	11,400	11,400	7,832	0	11,400	11,400	
5116 HEALTH INS IN LIEU PMTS	4,800	4,800	4,800	4,400	0	4,800	4,800	
5123 WELLNESS PROGRAM	220	600	600	240	0	600	600	
5241 MAINTENANCE OF EQUIPMENT	12,596	2,500	2,500	430	0	2,500	1,000	
5242 VEHICLE FUEL	3,103	4,000	4,000	2,466	0	4,000	4,600	
5250 PUBLICATION/DUES	100	700	700	100	0	700	500	
5260 TELEPHONE	1,895	2,400	2,400	1,741	0	2,400	2,400	
5265 TRAINING/EDUCATION	2,180	3,500	3,500	760	0	3,500	3,500	
5270 TRAVEL & MEETINGS	1,515	3,000	3,000	1,533	0	3,000	3,000	
5301 OFFICE SUPPLIES	381	1,300	1,300	323	0	1,300	1,000	
5310 SAFETY/EQUIPMENT/CLOTHING	3,109	3,500	3,500	2,499	0	3,500	3,500	
Dept: 310 ENGINEERING								
5101 SALARIES - FULL TIME	242,719	354,700	354,700	225,814	0	354,700	354,700	
5103 OVERTIME	0	0	0	2,246	0			
5108 SPECIALTY PAY	300	650	650	648	0	700	700	
5111 RETIREMENT	28,549	43,400	43,400	17,306	0	43,400	43,400	
5112 FICA	18,886	27,500	27,500	17,526	0	27,500	27,500	
5113 WORKER'S COMP	6,300	12,600	12,600	11,600	0	12,600	12,600	
5114 UNEMPLOYMENT INS.	336	1,100	1,100	869	0	1,100	1,100	
5115 HEALTH INSURANCE	23,896	34,200	34,200	15,200	0	34,200	34,200	
5116 HEALTH INS IN LIEU PMTS	600	4,800	4,800	4,000	0	4,800	4,800	
5123 WELLNESS PROGRAM	1,050	1,200	1,200	960	0	1,200	1,200	
5241 MAINTENANCE OF EQUIPMENT	1,008	1,600	1,600	961	0	1,600	1,600	
5242 VEHICLE FUEL	1,467	2,400	2,400	1,738	0	2,400	2,700	
5250 PUBLICATION/DUES	276	700	700	38	0	700	700	
5260 TELEPHONE	1,121	2,400	2,400	1,470	0	2,400	2,400	
5270 TRAVEL & MEETINGS	0	4,000	4,000	650	0	4,000	4,000	
5301 OFFICE SUPPLIES	1,921	1,200	1,200	641	0	1,200	1,000	
5310 SAFETY/EQUIPMENT/CLOTHING	3,239	3,900	3,900	3,263	0	3,900	4,000	
Dept: 320 STREET MAINTENANCE								
5101 SALARIES - FULL TIME	435,557	461,400	461,400	412,493	0	461,400	461,400	
5103 OVERTIME	4,735	15,000	15,000	4,104	0	15,000	15,000	
5104 COURT/TRAVEL/STANDBY	25,565	24,000	24,000	25,228	0	24,000	24,000	
5110 UNIFORM ALLOWANCE	7,304	16,000	16,000	5,851	0	16,000	16,000	
5111 RETIREMENT	54,493	38,600	38,600	31,964	0	38,600	38,600	
5112 FICA	36,320	35,700	35,700	33,181	0	35,700	35,700	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 320 STREET MAINTENANCE								
5113 WORKER'S COMP	25,100	28,400	28,400	27,400	0	28,400	28,400	
5114 UNEMPLOYMENT INS.	1,717	1,800	1,800	1,656	0	1,800	1,800	
5115 HEALTH INSURANCE	65,110	79,800	79,800	66,073	0	79,800	79,800	
5116 HEALTH INS IN LIEU PMTS	14,600	9,600	9,600	4,400	0	9,600	9,600	
5123 WELLNESS PROGRAM	1,595	3,000	3,000	1,103	0	3,000	3,000	
5210 CONTRACT SERVICE	39,313	150,000	150,000	143,887	0	150,000	30,000	
5241 MAINTENANCE OF EQUIPMENT	74,647	50,000	50,000	34,864	0	50,000	50,000	
5242 VEHICLE FUEL	34,105	35,000	35,000	28,803	0	35,000	35,000	
5243 VEHICLE LEASES	0	0	0	10,722	0		14,500	
5250 PUBLICATION/DUES	3,632	4,000	4,000	3,484	0	4,000	4,000	
5252 RENT OF EQUIPMENT / PROPERTY	654	1,200	1,200	714	0	1,200	1,200	
5260 TELEPHONE	5,974	6,000	6,000	4,477	0	6,000	6,000	
5270 TRAVEL & MEETINGS	1,060	2,000	2,000	959	0	2,000	2,000	
5280 UTILITIES - ELECTRIC	163,896	200,000	200,000	148,531	0	200,000	180,000	
5301 OFFICE SUPPLIES	384	1,000	1,000	447	0	1,000	1,000	
5302 CUSTODIAL SUPPLIES	0	2,000	2,000	1,577	0	2,000	2,000	
5310 SAFETY/EQUIPMENT/CLOTHING	7,818	7,000	7,000	7,140	0	7,000	7,000	
5320 SMALL TOOLS	3,739	10,000	10,000	3,731	0	10,000	5,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	81,632	85,000	85,000	66,382	0	85,000	60,000	
5440 EQUIPMENT - AUTOMOTIVE	0	0	74,850	74,843	0	74,900	74,900	
5442 EQUIPMENT - OTHER	113,210	185,000	185,000	70,228	0	185,000	60,000	
Dept: 325 STORM DRAINS								
5241 MAINTENANCE OF EQUIPMENT	10,573	15,000	15,000	2,912	0			
5250 PUBLICATION/DUES	10,920	12,000	12,000	11,236	0			
5280 UTILITIES - ELECTRIC	2,459	2,500	2,500	2,203	0			
Dept: 340 SHOP								
5101 SALARIES - FULL TIME	128,081	134,400	134,400	127,235	0	134,400	134,400	
5111 RETIREMENT	17,415	12,400	12,400	11,732	0	12,400	12,400	
5112 FICA	9,934	10,400	10,400	9,723	0	10,400	10,400	
5113 WORKER'S COMP	6,300	6,300	6,300	5,300	0	6,300	6,300	
5114 UNEMPLOYMENT INS.	316	500	500	364	0	500	500	
5115 HEALTH INSURANCE	17,257	22,800	22,800	14,608	0	22,800	22,800	
5123 WELLNESS PROGRAM	0	600	600	225	0	600	600	
5240 M & O IMPROVEMENTS	11,907	20,000	20,000	8,413	0	20,000	12,000	
5241 MAINTENANCE OF EQUIPMENT	55,606	60,000	60,000	15,401	0	60,000	20,000	
5242 VEHICLE FUEL	8,421	8,000	8,000	6,480	0	8,000	8,500	
5250 PUBLICATION/DUES	740	1,200	1,200	2,931	0	1,200	3,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 340 SHOP								
5260 TELEPHONE	1,428	2,000	2,000	1,143	0	2,000	1,500	
5302 CUSTODIAL SUPPLIES	241	1,000	1,000	347	0	1,000	500	
5310 SAFETY/EQUIPMENT/CLOTHING	2,488	3,000	3,000	1,483	0	3,000	2,500	
5320 SMALL TOOLS	4,797	5,000	5,000	3,623	0	5,000	5,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	1,356	1,500	1,500	1,610	0	1,500	2,000	
Dept: 345 BUILDINGS & GROUNDS								
5101 SALARIES - FULL TIME	191,766	205,000	205,000	94,183	0	205,000	205,000	
5103 OVERTIME	18,027	20,000	20,000	11,604	0	20,000	20,000	
5111 RETIREMENT	23,050	16,400	16,400	7,440	0	16,400	16,400	
5112 FICA	16,228	15,900	15,900	7,675	0	15,900	15,900	
5113 WORKER'S COMP	9,400	9,500	9,500	8,500	0	9,500	9,500	
5114 UNEMPLOYMENT INS.	486	1,300	1,300	336	0	1,300	1,300	
5115 HEALTH INSURANCE	22,397	22,800	22,800	10,281	0	22,800	22,800	
5210 CONTRACT SERVICE	168	70,000	70,000	60,516	0	70,000	64,000	
5240 M & O IMPROVEMENTS	62,345	140,000	140,000	56,430	0	140,000	130,000	
5241 MAINTENANCE OF EQUIPMENT	47,451	80,000	80,000	13,119	0	80,000	35,000	
5242 VEHICLE FUEL	9,778	10,000	10,000	4,890	0	10,000	10,000	
5243 VEHICLE LEASES	9,492	10,000	10,000	8,702	0	10,000	10,000	
5250 PUBLICATION/DUES	303	500	500	133	0	500	500	
5252 RENT OF EQUIPMENT / PROPERTY	0	0	0	389	0	500	500	
5260 TELEPHONE	1,987	2,000	2,000	934	0	2,000	1,200	
5262 TESTING SERVICES	0	0	0	3,000	0			
5301 OFFICE SUPPLIES	0	1,000	1,000	805	0	1,000	1,000	
5302 CUSTODIAL SUPPLIES	11,008	12,000	12,000	11,406	0	12,000	15,000	
5310 SAFETY/EQUIPMENT/CLOTHING	2,441	2,500	2,500	3,275	0	2,500	3,000	
5320 SMALL TOOLS	3,475	5,000	5,000	2,705	0	5,000	3,500	
5330 SPECIAL DEPARTMENTAL SUPPLIES	8,743	11,500	11,500	5,873	0	11,500	8,000	
5430 IMPROVEMENTS OTHER THAN BLDGS	1,181	6,500	6,500	2,535	0	6,500	4,000	
Dept: 350 COMMUNITY DEVELOPMENT								
5101 SALARIES - FULL TIME	270,826	286,600	286,600	276,836	0	286,600	286,600	
5102 SALARIES - PART TIME	1,600	0	0	1,584	0			
5103 OVERTIME	3,411	2,500	2,500	2,985	0	2,500	2,500	
5105 CERTIFICATE PAY	650	700	700	600	0	700	700	
5108 SPECIALTY PAY	1,534	1,600	1,600	1,200	0	1,600	1,600	
5111 RETIREMENT	36,029	28,000	28,000	24,598	0	28,000	28,000	
5112 FICA	21,884	22,300	22,300	21,954	0	22,300	22,300	
5113 WORKER'S COMP	9,400	9,500	9,500	8,500	0	9,500	9,500	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 350 COMMUNITY DEVELOPMENT								
5114 UNEMPLOYMENT INS.	546	1,000	1,000	590	0	1,000	1,000	
5115 HEALTH INSURANCE	22,765	22,800	22,800	19,800	0	22,800	22,800	
5116 HEALTH INS IN LIEU PMTS	4,000	4,800	4,800	4,400	0	4,800	4,800	
5123 WELLNESS PROGRAM	50	0	0	605	0			
5210 CONTRACT SERVICE	72,785	50,000	50,000	14,170	0	50,000	50,000	
5221 FEE REFUNDS	4,894	0	0	6,516	0			
5241 MAINTENANCE OF EQUIPMENT	216	500	500	190	0	500	500	
5242 VEHICLE FUEL	213	300	300	50	0	300	300	
5243 VEHICLE LEASES	20,727	22,000	22,000	19,586	0	22,000	22,000	
5250 PUBLICATION/DUES	2,696	3,000	3,000	2,364	0	3,000	3,000	
5260 TELEPHONE	1,593	2,400	2,400	1,194	0	2,400	2,400	
5265 TRAINING/EDUCATION	1,265	3,200	3,200	1,063	0	3,200	3,200	
5270 TRAVEL & MEETINGS	5,849	5,600	5,600	3,929	0	5,600	5,600	
5301 OFFICE SUPPLIES	2,428	1,500	1,500	1,352	0	1,500	1,500	
5310 SAFETY/EQUIPMENT/CLOTHING	870	1,500	1,500	981	0	1,500	1,500	
5330 SPECIAL DEPARTMENTAL SUPPLIES	1,190	1,000	1,000	631	0	1,000	1,000	
5442 EQUIPMENT - OTHER	6,639	6,000	6,000	6,607	0	6,000	7,200	
Dept: 360 BUILDING & SAFETY								
5101 SALARIES - FULL TIME	116,844	210,000	210,000	149,174	0	210,000	210,000	
5103 OVERTIME	1,507	1,500	1,500	465	0	1,500	1,500	
5108 SPECIALTY PAY	2,300	1,300	1,300	800	0	1,300	1,300	
5111 RETIREMENT	14,184	16,700	16,700	11,235	0	16,700	16,700	
5112 FICA	9,397	16,300	16,300	11,920	0	16,300	16,300	
5113 WORKER'S COMP	6,300	9,500	9,500	8,500	0	9,500	9,500	
5114 UNEMPLOYMENT INS.	323	700	700	551	0	700	700	
5115 HEALTH INSURANCE	14,301	22,800	22,800	14,766	0	22,800	22,800	
5116 HEALTH INS IN LIEU PMTS	4,800	4,800	4,800	4,400	0	4,800	4,800	
5123 WELLNESS PROGRAM	234	600	600	1,355	0	600	600	
5213 STATE MANDATED FEE	273	0	0	691	0			
5241 MAINTENANCE OF EQUIPMENT	2,019	2,000	2,000	554	0	2,000	2,000	
5242 VEHICLE FUEL	2,353	2,500	2,500	1,814	0	2,500	2,800	
5260 TELEPHONE	919	1,100	1,100	1,061	0	1,100	1,100	
5265 TRAINING/EDUCATION	3,132	6,900	6,900	2,237	0	6,900	7,600	
5270 TRAVEL & MEETINGS	2,269	4,000	4,000	1,704	0	4,000	4,600	
5301 OFFICE SUPPLIES	215	1,000	1,000	503	0	1,000	500	
5310 SAFETY/EQUIPMENT/CLOTHING	3,832	3,500	3,500	3,381	0	3,500	4,000	
Dept: 410 LIBRARY SERVICES								

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Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 410 LIBRARY SERVICES								
5101 SALARIES - FULL TIME	429,839	515,200	515,200	470,177	0	515,200	515,200	
5102 SALARIES - PART TIME	14,054	26,100	26,100	5,910	0	26,100	26,100	
5103 OVERTIME	346	1,000	1,000	1,301	0	1,000	1,000	
5108 SPECIALTY PAY	2,100	2,600	2,600	2,500	0	2,600	2,600	
5111 RETIREMENT	56,226	44,000	44,000	39,210	0	44,000	44,000	
5112 FICA	34,422	42,000	42,000	36,394	0	42,000	42,000	
5113 WORKER'S COMP	25,100	25,200	25,200	24,200	0	25,200	25,200	
5114 UNEMPLOYMENT INS.	1,402	4,900	4,900	1,763	0	4,900	4,900	
5115 HEALTH INSURANCE	50,984	57,000	57,000	52,213	0	57,000	57,000	
5116 HEALTH INS IN LIEU PMTS	13,800	14,400	14,400	8,800	0	14,400	14,400	
5123 WELLNESS PROGRAM	1,088	1,200	1,200	1,491	0	1,200	1,200	
5210 CONTRACT SERVICE	7,661	11,000	11,000	3,996	0	11,000	6,300	
5222 LITERACY SERVICES	1,641	15,000	15,000	1,069	0	15,000	15,000	
5240 M & O IMPROVEMENTS	0	8,100	8,100	1,404	0	8,100	6,900	
5241 MAINTENANCE OF EQUIPMENT	2,263	2,500	2,500	502	0	2,500	2,500	
5242 VEHICLE FUEL	558	1,000	1,000	520	0	1,000	1,000	
5250 PUBLICATION/DUES	13,837	5,500	5,500	2,898	0	5,500	4,300	
5251 LICENSES	0	11,600	11,600	6,632	0	11,600	8,600	
5260 TELEPHONE	1,120	1,600	1,600	2,028	0	1,600	1,300	
5265 TRAINING/EDUCATION	4,163	5,000	5,000	1,550	0	5,000	5,000	
5270 TRAVEL & MEETINGS	10,065	13,000	13,000	12,322	0	13,000	9,700	
5280 UTILITIES - ELECTRIC	22,687	24,000	24,000	14,621	0	24,000	24,000	
5301 OFFICE SUPPLIES	2,600	2,500	2,500	1,501	0	2,500	4,700	
5302 CUSTODIAL SUPPLIES	0	1,000	1,000	1,230	0	1,000	2,000	
5310 SAFETY/EQUIPMENT/CLOTHING	2,604	3,000	3,000	1,130	0	3,000	1,400	
5330 SPECIAL DEPARTMENTAL SUPPLIES	22,772	23,500	23,500	11,471	0	23,500	22,000	
5332 Cannabis CUP Funding	3,942	35,000	35,000	1,918	0	2,000	2,000	
5442 EQUIPMENT - OTHER	13,688	15,000	15,000	10,140	0	15,000	10,000	
5444 LIBRARY BOOKS	39,768	41,000	41,000	33,233	0	41,000	41,000	
5445 GRANT PRGRMS LUNCH LIBRARY	17,251	0	0	8,963	0			
Dept: 420 PARKS & RECREATION								
5101 SALARIES - FULL TIME	918,480	1,066,500	1,066,500	861,423	0	1,066,500	1,066,500	
5103 OVERTIME	21,580	20,000	20,000	28,674	0	20,000	20,000	
5104 COURT/TRAVEL/STANDBY	13,694	12,000	12,000	14,803	0	12,000	12,000	
5108 SPECIALTY PAY	650	700	700	375	0	700	700	
5110 UNIFORM ALLOWANCE	5,972	4,800	4,800	4,637	0	4,800	4,800	
5111 RETIREMENT	115,480	89,900	89,900	70,291	0	89,900	89,900	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 420 PARKS & RECREATION								
5112 FICA	74,235	82,400	82,400	70,394	0	82,400	82,400	
5113 WORKER'S COMP	50,200	56,800	56,800	55,800	0	56,800	56,800	
5114 UNEMPLOYMENT INS.	2,862	4,400	4,400	3,281	0	4,400	4,400	
5115 HEALTH INSURANCE	113,767	141,000	141,000	107,153	0	141,000	141,000	
5116 HEALTH INS IN LIEU PMTS	14,400	14,400	14,400	22,000	0	14,400	14,400	
5123 WELLNESS PROGRAM	1,885	1,800	1,800	1,381	0	1,800	1,800	
5124 EDUCATION INCENTIVE	2,000	2,000	2,000	2,000	0	2,000	2,000	
5210 CONTRACT SERVICE	3,891	10,000	10,000	6,310	0	10,000	8,500	
5221 FEE REFUNDS	0	0	0	40	0			
5240 M & O IMPROVEMENTS	5,400	8,400	8,400	4,500	0	8,400	8,400	
5241 MAINTENANCE OF EQUIPMENT	74,816	100,000	100,000	62,961	0	100,000	80,000	
5242 VEHICLE FUEL	8,476	0	15,000	16,559	0	15,000	15,000	
5243 VEHICLE LEASES	37,327	38,000	38,000	55,362	0	38,000	49,000	
5250 PUBLICATION/DUES	5,795	9,900	9,900	3,165	0	9,900	7,000	
5260 TELEPHONE	8,876	10,000	10,000	6,919	0	10,000	9,000	
5263 CHEMICALS	259	1,000	1,000	696	0	1,000	1,000	
5265 TRAINING/EDUCATION	3,587	5,300	5,300	5,300	0	5,300	3,000	
5270 TRAVEL & MEETINGS	9,892	14,000	14,000	9,922	0	14,000	5,000	
5280 UTILITIES - ELECTRIC	48,847	48,000	48,000	35,683	0	48,000	48,000	
5301 OFFICE SUPPLIES	1,428	2,000	2,000	744	0	2,000	1,100	
5302 CUSTODIAL SUPPLIES	4,093	10,000	10,000	3,666	0	10,000	5,000	
5310 SAFETY/EQUIPMENT/CLOTHING	9,536	10,000	10,000	8,249	0	10,000	10,000	
5320 SMALL TOOLS	6,986	9,000	9,000	3,342	0	9,000	7,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	20,056	20,000	20,000	12,126	0	20,000	15,000	
5350 WATER PURCHASES	479	1,000	1,000	752	0	1,000	1,000	
5443 GRANT PROGRAMS EXPENSES	0	0	49,500	61,490	0	49,500	70,000	
Dept: 421 RECREATION & AQUATICS PROGRAM								
5102 SALARIES - PART TIME	88,645	111,700	111,700	81,724	0	111,700	111,700	
5112 FICA	6,783	8,600	8,600	6,252	0	8,600	8,600	
5113 WORKER'S COMP	25,100	25,100	25,100	16,610	0	25,100	25,100	
5114 UNEMPLOYMENT INS.	2,128	3,200	3,200	1,963	0	3,200	3,200	
5210 CONTRACT SERVICE	4,876	10,000	10,000	4,915	0	10,000	10,000	
5221 FEE REFUNDS	542	0	0	20	0			
5241 MAINTENANCE OF EQUIPMENT	4	2,500	2,500	198	0	2,500	1,000	
5250 PUBLICATION/DUES	3,780	5,000	5,000	3,679	0	5,000	5,000	
5252 RENT OF EQUIPMENT / PROPERTY	4,289	9,000	9,000	14,094	0	9,000	17,000	
5265 TRAINING/EDUCATION	1,558	2,000	2,000	535	0	2,000	2,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 01 - GENERAL FUND								
Expenditures								
Dept: 421 RECREATION & AQUATICS PROGRAM								
5301 OFFICE SUPPLIES	271	500	500	218	0	500	500	
5310 SAFETY/EQUIPMENT/CLOTHING	3,267	6,000	6,000	1,955	0	6,000	6,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	17,062	15,000	15,000	16,958	0	15,000	10,000	
5446 AQUATICS PROGRAM	0	40,000	40,000	10,401	0	40,000	40,000	
Dept: 450 SPECIAL EVENTS								
5102 SALARIES - PART TIME	2,001	3,500	3,500	4,318	0	3,500	3,500	
5103 OVERTIME	89,438	80,000	80,000	87,920	0	80,000	80,000	
5111 RETIREMENT	27	0	0	2	0			
5112 FICA	7,160	7,000	7,000	7,012	0	7,000	7,000	
5114 UNEMPLOYMENT INS.	192	300	300	302	0	300	300	
5115 HEALTH INSURANCE	5,267	6,000	6,000	2,121	0	6,000	6,000	
5201 ADVERTISING (INCL LEGAL)	3,447	3,500	3,500	1,193	0	3,500	2,500	
5210 CONTRACT SERVICE	145,607	175,000	175,000	135,653	0	175,000	160,000	
5212 MARKET SUPPLIES	88,654	75,000	75,000	69,481	0	75,000	75,000	
5221 FEE REFUNDS	125	0	0	135	0			
5241 MAINTENANCE OF EQUIPMENT	4,403	4,500	4,500	2,361	0	4,500	4,500	
5250 PUBLICATION/DUES	15,561	18,500	18,500	10,708	0	18,500	16,500	
5252 RENT OF EQUIPMENT / PROPERTY	34,407	51,000	51,000	33,993	0	51,000	40,000	
5301 OFFICE SUPPLIES	1,974	2,500	2,500	765	0	2,500	1,500	
5310 SAFETY/EQUIPMENT/CLOTHING	1,462	2,000	2,000	308	0	2,000	1,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	35,479	40,000	40,000	22,085	0	40,000	40,000	
Total Expenditures	16,428,955	18,955,150	19,094,500	15,007,204	0	19,266,000	18,847,300	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 02 - ARPA								
Revenues								
Dept: 000								
4610 INTEREST EARNED	26,785	200	200	9,788	0	200	200	
Total Revenues	26,785	200	200	9,788	0	200	200	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 04 - TRAFFIC SAFETY								
Revenues								
Dept: 000								
4310 VEHICLE CODE FINES	4,343	4,200	4,200	5,186	0	5,200	5,200	
4610 INTEREST EARNED	682	800	800	346	0	500	500	
Total Revenues	5,025	5,000	5,000	5,532	0	5,700	5,700	0
Expenditures								
Dept: 320 STREET MAINTENANCE								
5910 OPERATING TRANSFERS OUT	3,500	3,600	3,600	2,700	0	4,000	4,000	
Total Expenditures	3,500	3,600	3,600	2,700	0	4,000	4,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 05 - STATE GAS TAX								
Revenues								
Dept: 000								
4419 STATE GAS TAX - 2103	211,739	189,700	189,700	176,720	0	189,700	189,700	
4420 STATE GAS TAX - 2105	137,696	131,500	131,500	114,539	0	131,500	131,500	
4421 STATE GAS TAX - 2106	91,701	79,600	79,600	74,126	0	79,600	79,600	
4422 STATE GAS TAX - 2107	182,126	147,900	147,900	150,936	0	147,900	147,900	
4423 STATE GAS TAX - 2107.5	5,000	4,200	4,200	5,000	0	4,200	4,200	
4610 INTEREST EARNED	13,395	25,500	25,500	10,987	0	25,500	25,500	
Total Revenues	641,657	578,400	578,400	532,308	0	578,400	578,400	0
Expenditures								
Dept: 320 STREET MAINTENANCE								
5910 OPERATING TRANSFERS OUT	500,000	660,000	660,000	495,000	0	600,000	600,000	
Total Expenditures	500,000	660,000	660,000	495,000	0	600,000	600,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 06 - LOCAL TRANSPORTATION								
Revenues								
Dept: 000								
4610 INTEREST EARNED	16,577	15,300	15,300	7,005	0	10,000	10,000	
Total Revenues	16,577	15,300	15,300	7,005	0	10,000	10,000	0
Expenditures								
Dept: 320 STREET MAINTENANCE								
5210 CONTRACT SERVICE	7,843	10,200	10,200	7,848	0	10,200	10,200	
5910 OPERATING TRANSFERS OUT	5,000	5,100	5,100	3,825	0	5,100	5,100	
Total Expenditures	12,843	15,300	15,300	11,673	0	15,300	15,300	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 08 - LTA MEASURE D								
Revenues								
Dept: 000								
4120 SALES TAX	1,854,164	884,300	884,300	1,506,231	0	1,600,000	1,600,000	
4610 INTEREST EARNED	53,979	102,000	102,000	27,920	0	40,000	40,000	
Total Revenues	1,908,143	986,300	986,300	1,534,151	0	1,640,000	1,640,000	0
Expenditures								
Dept: 310 ENGINEERING								
5910 OPERATING TRANSFERS OUT	122,000	124,400	124,400	93,300	0			
Dept: 320 STREET MAINTENANCE								
5210 CONTRACT SERVICE	212,381	102,000	102,000	136,910	0			
5910 OPERATING TRANSFERS OUT	812,326	724,200	724,200	543,150	0	800,000	800,000	
Total Expenditures	1,146,707	950,600	950,600	773,360	0	800,000	800,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 09 - PROP 172								
Revenues								
Dept: 000								
4460 STATE GRANT - PROP 172	152,726	158,200	158,200	117,570	0	158,200	158,200	
4610 INTEREST EARNED	1,996	5,100	5,100	2,039	0	5,100	5,100	
Total Revenues	154,722	163,300	163,300	119,609	0	163,300	163,300	0
Expenditures								
Dept: 210 POLICE MANAGEMENT SERVICES								
5910 OPERATING TRANSFERS OUT	150,000	153,000	153,000	114,750	0	153,000	153,000	
Total Expenditures	150,000	153,000	153,000	114,750	0	153,000	153,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 11 - FEDERAL GRANTS - SBA (DHS)								
Revenues								
Dept: 000								
4459 OTHER STATE & FED GRANTS	0	0	0	642	0			
4490 CARBON REDUCTION PROGRAM	0	0	0	3,453	0			
4491 STBG GRANTS	0	0	0	1,059,320	0			
4610 INTEREST EARNED	41,119	0	0	14,728	0			
Total Revenues	41,119	0	0	1,078,143	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 14 - COPS GRANT 2022								
Revenues								
Dept: 000								
4471 STATE GRANTS	97,033	0	0	206,696	0	210,000	210,000	
4610 INTEREST EARNED	5,467	100	100	3,497	0	3,000	3,000	
Total Revenues	102,500	100	100	210,193	0	213,000	213,000	0
Expenditures								
Dept: 210 POLICE MANAGEMENT SERVICES								
5330 SPECIAL DEPARTMENTAL SUPPLIES	82,039	0	0	232,658	0	180,000	180,000	
Total Expenditures	82,039	0	0	232,658	0	180,000	180,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 15 - HOME								
Revenues								
Dept: 000								
4610 INTEREST EARNED	6,423	5,100	5,100	3,013	0	5,100	5,100	
Total Revenues	6,423	5,100	5,100	3,013	0	5,100	5,100	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 16 - HOUSING REHAB								
Revenues								
Dept: 000								
4451 STBG 1703 GRANT	1,350	2,700	2,700	1,500	0	2,700	2,700	
4462 STBG 6717 GRANT	671	500	500	265	0	500	500	
4475 PROGRAM INCOME	0	500	500	47	0	500	500	
4610 INTEREST EARNED	4,667	500	500	2,236	0	3,000	3,000	
Total Revenues	6,688	4,200	4,200	4,048	0	6,700	6,700	0
Expenditures								
Dept: 190 GENERAL SERVICES								
5910 OPERATING TRANSFERS OUT	5,000	5,100	5,100	3,825	0	5,100	5,100	
Total Expenditures	5,000	5,100	5,100	3,825	0	5,100	5,100	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 18 - RLA - Fund								
Revenues								
Dept: 000								
4475 PROGRAM INCOME	2,231	5,200	5,200	2,103	0	5,200	5,200	
4610 INTEREST EARNED	4,811	4,100	4,100	2,782	0	4,100	4,100	
Total Revenues	7,042	9,300	9,300	4,885	0	9,300	9,300	0
Expenditures								
Dept: 155 COMMUNITY DEVELOPMENT								
5910 OPERATING TRANSFERS OUT	5,000	5,100	5,100	3,825	0	5,100	5,100	
Total Expenditures	5,000	5,100	5,100	3,825	0	5,100	5,100	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 19 - IMPERIAL IT ENTERPRISE								
Revenues								
Dept: 000								
4280 IT Services (External)	19,876	33,700	33,700	17,994	0	33,700	33,700	
4910 OPERATING TRANSFERS IN	448,125	726,200	726,200	544,650	0	726,200	726,200	
4950 TRANSFER IN - Water	389,175	626,000	626,000	469,500	0	626,000	626,000	
4955 TRANSFER IN - Waste Water	342,000	544,700	544,700	408,525	0	544,700	544,700	
Total Revenues	1,199,176	1,930,600	1,930,600	1,440,669	0	1,930,600	1,930,600	0
Expenditures								
Dept: 143 INFORMATION TECHNOLOGY SERVICE								
5101 SALARIES - FULL TIME	326,531	410,100	410,100	378,374	0	410,100	410,100	
5103 OVERTIME	7,963	10,000	10,000	10,028	0	10,000	10,000	
5104 COURT/TRAVEL/STANDBY	153	0	0	14,909	0			
5108 SPECIALTY PAY	650	700	700	325	0	700	700	
5111 RETIREMENT	38,650	32,700	32,700	29,022	0	32,700	32,700	
5112 FICA	25,524	31,800	31,800	31,226	0	31,800	31,800	
5113 WORKER'S COMP	12,600	19,000	19,000	19,000	0	19,000	19,000	
5114 UNEMPLOYMENT INS.	846	1,500	1,500	1,075	0	1,500	1,500	
5115 HEALTH INSURANCE	37,379	57,000	57,000	37,738	0	57,000	57,000	
5123 WELLNESS PROGRAM	404	600	600	945	0	600	600	
5124 EDUCATION INCENTIVE	0	0	0	500	0			
5241 MAINTENANCE OF EQUIPMENT	1,686	1,800	1,800	1,668	0	1,800	2,000	
5242 VEHICLE FUEL	2,538	2,000	2,000	2,306	0	2,000	2,500	
5243 VEHICLE LEASES	5,458	6,000	6,000	7,038	0	6,000	10,000	
5250 PUBLICATION/DUES	2,479	3,700	3,700	2,999	0	3,700	4,000	
5252 RENT OF EQUIPMENT / PROPERTY	1,984	1,900	1,900	2,121	0	1,900	2,600	
5260 TELEPHONE	3,121	4,300	4,300	3,348	0	4,300	4,500	
5265 TRAINING/EDUCATION	6,171	6,000	6,000	4,232	0	6,000	6,000	
5270 TRAVEL & MEETINGS	1,335	2,000	2,000	1,862	0	2,000	2,500	
5301 OFFICE SUPPLIES	3,473	5,000	5,000	999	0	5,000	3,500	
5310 SAFETY/EQUIPMENT/CLOTHING	1,964	2,000	2,000	1,931	0	2,000	2,500	
5320 SMALL TOOLS	3,375	3,500	3,500	2,493	0	3,500	3,500	
5330 SPECIAL DEPARTMENTAL SUPPLIES	5,538	7,500	7,500	7,590	0	7,500	7,500	
5440 EQUIPMENT - AUTOMOTIVE	0	40,000	40,000	30,982	0	40,000	40,000	
5442 EQUIPMENT - OTHER	15,815	10,000	10,000	5,769	0	10,000	10,000	
Dept: 144 INFORMATION TECHNOLOGY SUPPORT								
5210 CONTRACT SERVICE	22,270	27,600	27,600	19,000	0	27,600	10,000	
5251 LICENSES	61,062	61,800	64,200	58,701	0	64,200	64,200	
5253 SAS - SOFTWARE AS SVC	258,790	260,100	260,100	192,535	0	260,100	239,000	
5254 TECH SUPPORT SERVICES	38,669	49,400	49,400	51,563	0	49,400	48,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 19 - IMPERIAL IT ENTERPRISE								
Expenditures								
Dept: 144 INFORMATION TECHNOLOGY SUPPORT								
5255 IT SERVICES (OTHER)	2,424	3,500	3,500	2,386	0	3,500	3,000	
5282 FIBER OPTIC	29,513	34,300	34,300	30,415	0	34,300	47,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	26,597	30,000	30,000	28,030	0	30,000	30,000	
5442 EQUIPMENT - OTHER	44,606	153,000	186,000	186,752	0	186,000	40,000	
Dept: 145 GIS DIVISION OF IT SERVICES								
5101 SALARIES - FULL TIME	104,426	116,500	116,500	103,423	0	116,500	116,500	
5111 RETIREMENT	12,952	9,300	9,300	8,233	0	9,300	9,300	
5112 FICA	7,168	9,000	9,000	7,000	0	9,000	9,000	
5113 WORKER'S COMP	3,100	3,200	3,200	3,200	0	3,200	3,200	
5114 UNEMPLOYMENT INS.	242	300	300	182	0	300	300	
5115 HEALTH INSURANCE	9,421	11,400	11,400	7,700	0	11,400	11,400	
5241 MAINTENANCE OF EQUIPMENT	235	1,500	1,500	914	0	1,500	1,500	
5242 VEHICLE FUEL	274	1,500	1,500	445	0	1,500	800	
5251 LICENSES	0	5,000	5,000	978	0	5,000	71,500	
5253 SAS - SOFTWARE AS SVC	69,018	131,400	131,400	85,542	0	131,400	68,000	
5260 TELEPHONE	838	900	900	1,620	0	900	1,400	
5265 TRAINING/EDUCATION	0	4,000	4,000	1,440	0	4,000	2,000	
5270 TRAVEL & MEETINGS	1,436	11,300	11,300	5,542	0	11,300	6,000	
5301 OFFICE SUPPLIES	921	1,000	1,000	1,036	0	1,000	500	
5310 SAFETY/EQUIPMENT/CLOTHING	101	1,600	1,600	48	0	1,600	600	
5442 EQUIPMENT - OTHER	23,866	37,900	37,900	19,187	0	37,900		
Dept: 146 CYBERSECURITY DIVISION OF IT								
5101 SALARIES - FULL TIME	71,282	86,800	86,800	93,837	0	86,800	86,800	
5111 RETIREMENT	8,367	7,000	7,000	6,806	0	7,000	7,000	
5112 FICA	5,558	6,700	6,700	7,198	0	6,700	6,700	
5114 UNEMPLOYMENT INS.	94	0	0	182	0			
5115 HEALTH INSURANCE	7,597	11,400	11,400	7,700	0	11,400	11,400	
5123 WELLNESS PROGRAM	299	300	300	249	0	300	300	
5251 LICENSES	59,135	4,200	4,200	4,157	0	4,200	4,500	
5253 SAS - SOFTWARE AS SVC	69,965	80,600	80,600	73,051	0	80,600	140,000	
5260 TELEPHONE	420	600	600	383	0	600	600	
5265 TRAINING/EDUCATION	384	3,000	3,000	135	0	3,000	3,000	
Dept: 147 BROADBAND DIVISION OF IT								
5210 CONTRACT SERVICE	16,675	20,000	20,000	9,100	0	20,000	15,000	
5280 UTILITIES - ELECTRIC	0	10,000	10,000	3,132	0	10,000	5,000	
5282 FIBER OPTIC	9,838	21,500	21,500	10,798	0	21,500	20,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	4,955	10,000	10,000	10,669	0	10,000	10,000	
5442 EQUIPMENT - OTHER	0	25,000	25,000	23,488	0	25,000	25,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 19 - IMPERIAL IT ENTERPRISE								
Total Expenditures	1,478,135	1,911,700	1,947,100	1,665,237	0	1,947,100	1,783,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 20 - LIBRARY ZIPBOOKS								
Revenues								
Dept: 000								
4471 STATE GRANTS	13,427	10,400	10,400	11,088	0	11,000	11,000	
4610 INTEREST EARNED	212	500	500	89	0	200	200	
Total Revenues	13,639	10,900	10,900	11,177	0	11,200	11,200	0
Expenditures								
Dept: 410 LIBRARY SERVICES								
5444 LIBRARY BOOKS	10,135	0	0	12,706	0	11,000	11,000	
Total Expenditures	10,135	0	0	12,706	0	11,000	11,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 21 - WILDFLOWER#8-LANDSCAPE/LIGHTNG								
Revenues								
Dept: 000								
4546 LANDSCAPING	58,386	57,200	57,200	59,859	0	60,000	60,000	
4547 LIGHTING	11,679	22,800	22,800	12,542	0	14,000	14,000	
4610 INTEREST EARNED	13,802	10,200	10,200	7,214	0	10,200	10,200	
Total Revenues	83,867	90,200	90,200	79,615	0	84,200	84,200	0
Expenditures								
Dept: 400 LIGHTING DISTRICT								
5210 CONTRACT SERVICE	2,326	0	0	1,805	0	2,500	2,500	
5910 OPERATING TRANSFERS OUT	17,200	17,200	17,200	12,900	0	17,500	17,500	
Dept: 500 LANDSCAPE								
5210 CONTRACT SERVICE	2,376	3,200	3,200	1,842	0	2,500	2,500	
5241 MAINTENANCE OF EQUIPMENT	3,955	3,500	3,500	158	0	500	500	
5242 VEHICLE FUEL	738	1,000	1,000	359	0	1,000	1,000	
Total Expenditures	26,595	24,900	24,900	17,064	0	24,000	24,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 22 - EQUIP/VEHICLE REPLACEMENT								
Revenues								
Dept: 000								
4803 SALE -CITY PROP VEHICLES	47,063	0	0	7,734	0	12,000	12,000	
Total Revenues	47,063	0	0	7,734	0	12,000	12,000	0
Expenditures								
Dept: 346 VEHICLE REPLACEMENT								
5440 EQUIPMENT - AUTOMOTIVE	55,755	180,000	180,000	110,146	0			
5910 OPERATING TRANSFERS OUT	950,000	1,051,300	1,051,300	788,475	0			
Dept: 610 VEHICLE/EQUIP REPLACEMENT								
5440 EQUIPMENT - AUTOMOTIVE	77,671	0	0	41,501	0			
Total Expenditures	1,083,426	1,231,300	1,231,300	940,122	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 23 - PASEO DEL SOL-LANDSCAPE/LIGHT								
Revenues								
Dept: 000								
4546 LANDSCAPING	61,702	60,600	60,600	62,528	0	60,600	60,600	
4547 LIGHTING	12,339	24,200	24,200	11,937	0	14,000	14,000	
4610 INTEREST EARNED	1,175	8,200	8,200	234	0	500	500	
Total Revenues	75,216	93,000	93,000	74,699	0	75,100	75,100	0
Expenditures								
Dept: 400 LIGHTING DISTRICT								
5210 CONTRACT SERVICE	2,326	0	0	1,805	0	2,500	2,500	
Dept: 500 LANDSCAPE								
5210 CONTRACT SERVICE	2,376	3,200	3,200	1,842	0	2,500	2,500	
5242 VEHICLE FUEL	2,950	4,000	4,000	1,438	0	2,000	2,000	
5910 OPERATING TRANSFERS OUT	0	66,100	66,100	49,575	0	68,000	68,000	
Total Expenditures	7,652	73,300	73,300	54,660	0	75,000	75,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 25 - DONATIONS - LIBRARY								
Revenues								
Dept: 000								
4731 DONATIONS	47	0	0	10,000	0			
Total Revenues	47	0	0	10,000	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 26 - SB 1383								
Expenditures								
Dept: 350 COMMUNITY DEVELOPMENT								
5330 SPECIAL DEPARTMENTAL SUPPLIES	11,037	0	0	400	0			
Total Expenditures	11,037	0	0	400	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 27 - RISK MANAGEMENT FUND								
Expenditures								
Dept: 152 RISK MANAGEMENT								
5910 OPERATING TRANSFERS OUT	250,000	812,000	812,000	609,000	0			
Total Expenditures	250,000	812,000	812,000	609,000	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 30 - COPS GRANT 2021								
Revenues								
Dept: 000								
4610 INTEREST EARNED	2,470	100	100	284	0			
Total Revenues	2,470	100	100	284	0	0	0	0
Expenditures								
Dept: 210 POLICE MANAGEMENT SERVICES								
5330 SPECIAL DEPARTMENTAL SUPPLIES	106,099	0	0	6,441	0			
5910 OPERATING TRANSFERS OUT	500	500	500	375	0			
Total Expenditures	106,599	500	500	6,816	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 32 - SOLID WASTE SANITATION FUND								
Revenues								
Dept: 000								
4524 RUBBISH COLLECTION FEES	2,153,133	2,010,600	2,010,600	1,742,234	0	2,010,600	2,010,600	
4525 RUBBISH COLLECTION FEES AB939	155,698	169,600	169,600	125,004	0	150,000	150,000	
4610 INTEREST EARNED	6,388	0	0	5,472	0	5,000	5,000	
Total Revenues	2,315,219	2,180,200	2,180,200	1,872,710	0	2,165,600	2,165,600	0
Expenditures								
Dept: 330 SOLID WASTE MGMT SANITATION								
5210 CONTRACT SERVICE	1,899,850	1,938,000	1,938,000	1,681,239	0	1,938,000	1,938,000	
5217 RECYCLING TASK FORCE	53,414	71,400	71,400	58,640	0	71,400	71,400	
5301 OFFICE SUPPLIES	683	900	900	1,319	0	900	900	
Total Expenditures	1,953,947	2,010,300	2,010,300	1,741,198	0	2,010,300	2,010,300	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 35 - SKY RANCH DISTRICT								
Revenues								
Dept: 000								
4546 LANDSCAPING	241,971	234,600	234,600	244,298	0	245,000	245,000	
4610 INTEREST EARNED	29,878	32,600	32,600	15,394	0	18,000	18,000	
Total Revenues	271,849	267,200	267,200	259,692	0	263,000	263,000	0
Expenditures								
Dept: 500 LANDSCAPE								
5210 CONTRACT SERVICE	6,039	6,000	6,000	4,692	0	6,000	6,000	
5240 M & O IMPROVEMENTS	2,700	3,200	3,200	2,250	0	3,200	3,200	
5241 MAINTENANCE OF EQUIPMENT	24,524	20,000	20,000	13,079	0	20,000	20,000	
5242 VEHICLE FUEL	7,376	8,000	8,000	3,595	0	8,000	8,000	
5252 RENT OF EQUIPMENT / PROPERTY	0	3,500	3,500	485	0	800	800	
5302 CUSTODIAL SUPPLIES	2,174	4,000	4,000	1,600	0	2,000	2,000	
5320 SMALL TOOLS	478	1,000	1,000	979	0	1,000	1,000	
5910 OPERATING TRANSFERS OUT	99,300	99,300	99,300	74,475	0	99,300	99,300	
Total Expenditures	142,591	145,000	145,000	101,155	0	140,300	140,300	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 39 - LIBRARY LITERACY STATE								
Revenues								
Dept: 000								
4531 GRANT	43,969	104,000	104,000	43,972	0	44,000	44,000	
Total Revenues	43,969	104,000	104,000	43,972	0	44,000	44,000	0
Expenditures								
Dept: 410 LIBRARY SERVICES								
5330 SPECIAL DEPARTMENTAL SUPPLIES	3,655	0	0	6,072	0	5,000	5,000	
5910 OPERATING TRANSFERS OUT	42,200	43,000	43,000	32,250	0	43,000	43,000	
Total Expenditures	45,855	43,000	43,000	38,322	0	48,000	48,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 47 - COMMUNITY SERVICES GRANTS								
Revenues								
Dept: 000								
4610 INTEREST EARNED	5,614	2,000	2,000	3,408	0	2,000	2,000	
Total Revenues	5,614	2,000	2,000	3,408	0	2,000	2,000	0
Expenditures								
Dept: 410 LIBRARY SERVICES								
5330 SPECIAL DEPARTMENTAL SUPPLIES	5,002	0	0	7,379	0	5,000	5,000	
Total Expenditures	5,002	0	0	7,379	0	5,000	5,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 50 - WATER								
Revenues								
Dept: 000								
4551 WATER SERVICE CHARGES	6,598,648	6,583,500	6,583,500	5,293,415	0	6,583,500	6,583,500	
4552 WATER CONNECTION FEES	82,122	52,000	52,000	36,472	0	52,000	52,000	
4554 WATER TURN ON FEES	610	0	0	645	0			
4610 INTEREST EARNED	347,123	204,000	204,000	137,155	0	204,000	204,000	
4790 NOT OTHERWISE CLASSIFIED	7,070	500	500	548	0	500	500	
Total Revenues	7,035,573	6,840,000	6,840,000	5,468,235	0	6,840,000	6,840,000	0
Expenditures								
Dept: 510 WATER OPERATIONS								
5101 SALARIES - FULL TIME	643,352	658,700	658,700	506,695	0	658,700	658,700	
5103 OVERTIME	36,951	36,000	36,000	65,035	0	36,000	36,000	
5104 COURT/TRAVEL/STANDBY	40,880	40,000	40,000	33,682	0	40,000	40,000	
5105 CERTIFICATE PAY	10,025	14,000	14,000	9,425	0	14,000	14,000	
5108 SPECIALTY PAY	5,511	6,000	6,000	3,499	0	6,000	6,000	
5110 UNIFORM ALLOWANCE	10,220	14,000	14,000	8,551	0	14,000	14,000	
5111 RETIREMENT	76,643	84,300	84,300	78,318	0	84,300	84,300	
5112 FICA	53,391	51,500	51,500	48,422	0	51,500	51,500	
5113 WORKER'S COMP	28,200	28,400	28,400	28,400	0	28,400	28,400	
5114 UNEMPLOYMENT INS.	1,198	6,400	6,400	1,673	0	6,400	6,400	
5115 HEALTH INSURANCE	61,070	79,800	79,800	53,017	0	79,800	79,800	
5116 HEALTH INS IN LIEU PMTS	9,600	9,600	9,600	10,400	0	9,600	9,600	
5123 WELLNESS PROGRAM	0	600	600	414	0	600	600	
5210 CONTRACT SERVICE	106,929	130,000	130,000	88,322	0	130,000	160,000	
5230 GENERAL LIABILITY INSURANCE	294,243	344,800	344,800	330,345	0	344,800	344,800	
5240 M & O IMPROVEMENTS	20,972	29,000	29,000	28,447	0	29,000	20,000	
5241 MAINTENANCE OF EQUIPMENT	201,269	277,500	277,500	133,197	0	277,500	150,000	
5242 VEHICLE FUEL	34,762	50,000	50,000	33,018	0	50,000	40,000	
5243 VEHICLE LEASES	31,688	32,000	32,000	29,123	0	32,000	32,000	
5250 PUBLICATION/DUES	49,434	60,000	60,000	52,647	0	60,000	60,000	
5260 TELEPHONE	13,610	15,000	15,000	7,925	0	15,000	12,000	
5262 TESTING SERVICES	81,635	100,000	100,000	79,712	0	100,000	110,000	
5263 CHEMICALS	327,242	350,000	350,000	264,006	0	350,000	300,000	
5264 FILTER MEDIA GAC	99,131	200,000	200,000	102,220	0	200,000	120,000	
5265 TRAINING/EDUCATION	2,663	10,000	10,000	315	0	10,000	6,000	
5270 TRAVEL & MEETINGS	10,180	12,000	12,000	5,285	0	12,000	12,000	
5280 UTILITIES - ELECTRIC	299,517	350,000	350,000	203,981	0	350,000	320,000	
5301 OFFICE SUPPLIES	6,089	6,000	6,000	4,375	0	6,000	6,000	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 50 - WATER								
Expenditures								
Dept: 510 WATER OPERATIONS								
5302 CUSTODIAL SUPPLIES	28	1,500	1,500	571	0	1,500	1,500	
5303 BANK CHARGES	90,100	80,000	80,000	75,090	0	80,000	80,000	
5305 POSTAGE/FREIGHT	7,552	8,000	8,000	5,176	0	8,000	8,000	
5310 SAFETY/EQUIPMENT/CLOTHING	5,395	12,000	12,000	4,358	0	12,000	8,000	
5320 SMALL TOOLS	4,283	7,500	7,500	5,517	0	7,500	7,500	
5330 SPECIAL DEPARTMENTAL SUPPLIES	6,375	7,500	7,500	5,541	0	7,500	7,500	
5350 WATER PURCHASES	73,316	80,000	80,000	57,842	0	80,000	80,000	
5430 IMPROVEMENTS OTHER THAN BLDGS	999	20,000	20,000	4,785	0	20,000	10,000	
5442 EQUIPMENT - OTHER	101,766	250,000	250,000	73,165	0	250,000	70,000	
5520 DEBT SERVICE - PRINCIPAL	325,446	765,000	765,000	763,743	0	765,000	765,000	
5521 TRUSTEE FEES	-59,200	5,000	5,000	5,000	0	5,000	5,000	
5523 DEBT SERVICE - INTEREST	0	344,950	344,950	294,860	0	345,000	345,000	
5910 OPERATING TRANSFERS OUT	1,200,000	1,300,000	1,278,000	984,600	0	1,278,000	1,278,000	
Dept: 555 COLLECTIONS & DISTRIBUTION								
5101 SALARIES - FULL TIME	117,500	127,500	127,500	113,250	0	127,500	127,500	
5111 RETIREMENT	13,016	10,400	10,400	8,716	0	10,400	10,400	
5112 FICA	8,598	10,000	10,000	8,258	0	10,000	10,000	
5113 WORKER'S COMP	6,300	6,300	6,300	6,300	0	6,300	6,300	
5114 UNEMPLOYMENT INS.	306	500	500	224	0	500	500	
5115 HEALTH INSURANCE	16,670	22,800	22,800	14,325	0	22,800	22,800	
5123 WELLNESS PROGRAM	490	600	600	400	0	600	600	
5210 CONTRACT SERVICE	1,400	16,500	16,500	10,000	0	16,500	30,000	
5240 M & O IMPROVEMENTS	0	82,000	82,000	84,834	0	82,000	93,000	
5241 MAINTENANCE OF EQUIPMENT	223,205	250,000	250,000	63,403	0	250,000	120,000	
5242 VEHICLE FUEL	3,183	5,000	5,000	3,480	0	5,000	6,000	
5270 TRAVEL & MEETINGS	1,775	3,000	3,000	1,839	0	3,000	3,000	
5310 SAFETY/EQUIPMENT/CLOTHING	576	1,500	1,500	1,046	0	1,500	1,500	
5320 SMALL TOOLS	4,139	6,000	6,000	917	0	6,000	6,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	183,786	180,000	180,000	202,367	0	180,000	205,000	
5910 OPERATING TRANSFERS OUT	389,175	626,000	626,000	469,500	0	626,000	626,000	
Total Expenditures	5,282,584	7,225,150	7,203,150	5,479,556	0	7,203,200	6,656,200	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 51 - WATER CAPACITY								
Revenues								
Dept: 000								
4553 WATER CAPACITY FEES	547,667	286,200	286,200	277,276	0	286,200	286,200	
4610 INTEREST EARNED	261,547	311,100	311,100	129,832	0	160,000	160,000	
Total Revenues	809,214	597,300	597,300	407,108	0	446,200	446,200	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 52 - WATER BOND 2019								
Revenues								
Dept: 000								
4610 INTEREST EARNED	132,670	0	0	12	0			
Total Revenues	132,670	0	0	12	0	0	0	0
Expenditures								
Dept: 510 WATER OPERATIONS								
5210 CONTRACT SERVICE	1,055,467	0	0	423,258	0			
Total Expenditures	1,055,467	0	0	423,258	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 54 - CITYWIDE PROJECTS (CIP/OTHER)								
Expenditures								
Dept: 812 ERP SOFTWARE UPGRADE								
5210 CONTRACT SERVICE	63,909	236,091	0	10,500	0			
Dept: 814 Aten Blvd Class II Bike Lane								
5210 CONTRACT SERVICE	610,952	0	0	31,714	0			
Dept: 815 7th St Rehab Ped Improvements								
5210 CONTRACT SERVICE	195,564	302,436	0	90,868	0			
Dept: 817 Aten Blvd Rehab								
5210 CONTRACT SERVICE	1,789,604	0	0	28,324	0			
Dept: 818 Aten Blvd Rhb SR86 XX Tracks								
5210 CONTRACT SERVICE	0	0	0	52,724	0			
Dept: 823 Sustainable Transport. Project								
5210 CONTRACT SERVICE	2,058,379	4,820,993	0	3,658,267	0			
Dept: 824 Transporation Rel. Amenities								
5210 CONTRACT SERVICE	2,100	159,200	0	979	0			
Dept: 825 Transporation Partnership Prg								
5210 CONTRACT SERVICE	0	378,400	0	10,800	0			
Dept: 829 CORRIDOR SAFETY IMPROVENTS								
5210 CONTRACT SERVICE	6,514,258	0	0	1,310,951	0			
Dept: 831 SBA GRANT PROJECT								
5210 CONTRACT SERVICE	3,750	0	0	1,695	0			
Dept: 832 Manhole Rehab								
5210 CONTRACT SERVICE	0	1,500,000	0	1,341,350	0			
Dept: 836 Aten Blvd Sidewalk Myrtle Rd								
5210 CONTRACT SERVICE	0	0	0	2,350	0			
Dept: 838 P Street Rehab 1st & Berioni								
5210 CONTRACT SERVICE	0	0	0	2,650	0			
Dept: 842 Aten Blvd Tank Rehab								
5210 CONTRACT SERVICE	0	1,400,000	0	835,241	0			
Dept: 845 Aten Blvd Rehab RR Clark								
5210 CONTRACT SERVICE	0	0	0	2,650	0			
Dept: 848 ClayPool Sewer Pipe								
5210 CONTRACT SERVICE	1,375,243	1,124,757	0	2,098,575	0			
Dept: 849 Wastewater Trtmnt Plan Demo								
5210 CONTRACT SERVICE	0	500,000	0	78,340	0			
Dept: 851 Wastewater Headworks Design								
5210 CONTRACT SERVICE	38,086	361,914	0	18,744	0			
Dept: 853 Wastewater Collection Survey								
5210 CONTRACT SERVICE	0	0	0	148,271	0			
Dept: 855 Raw Water Pond Lining								
5210 CONTRACT SERVICE	0	1,500,000	0	76,221	0			
Dept: 860 Wastewater Headworks Replacemt								
5210 CONTRACT SERVICE	0	0	0	14,089	0			
Dept: 861 Redondo Park PG								
5210 CONTRACT SERVICE	0	500,000	0	428,352	0			
Dept: 864 CA Irving Parking Lot								

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 54 - CITYWIDE PROJECTS (CIP/OTHER)								
Expenditures								
Dept: 864 CA Irving Parking Lot								
5210 CONTRACT SERVICE	0	149,700	0	137,599	0			
Dept: 865 Imperial Apartments								
5210 CONTRACT SERVICE	0	405,600	0	51,552	0			
Total Expenditures	12,651,845	13,339,091	0	10,432,806	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 55 - WASTEWATER								
Revenues								
Dept: 000								
4561 SEWER SERVICE CHARGES	6,391,540	6,309,200	6,309,200	5,418,929	0	6,309,200	6,309,200	
4562 SEWER CONNECTION FEES	0	0	0	1,127	0			
4610 INTEREST EARNED	543,868	703,800	703,800	198,203	0	500,000	500,000	
4790 NOT OTHERWISE CLASSIFIED	1,533	500	500	4,747	0	500	500	
Total Revenues	6,936,941	7,013,500	7,013,500	5,623,006	0	6,809,700	6,809,700	0
Expenditures								
Dept: 520 WASTEWATER OPERATIONS								
5101 SALARIES - FULL TIME	432,368	404,600	404,600	420,260	0	404,600	404,600	
5103 OVERTIME	23,108	25,000	25,000	31,950	0	25,000	25,000	
5104 COURT/TRAVEL/STANDBY	18,006	20,000	20,000	16,630	0	20,000	20,000	
5105 CERTIFICATE PAY	1,950	5,200	5,200	2,375	0	5,200	5,200	
5110 UNIFORM ALLOWANCE	10,308	10,500	10,500	9,137	0	10,500	10,500	
5111 RETIREMENT	47,326	54,000	54,000	55,484	0	54,000	54,000	
5112 FICA	34,632	32,000	32,000	37,001	0	32,000	32,000	
5113 WORKER'S COMP	15,700	15,800	15,800	15,800	0	15,800	15,800	
5114 UNEMPLOYMENT INS.	897	2,500	2,500	1,443	0	2,500	2,500	
5115 HEALTH INSURANCE	39,214	34,200	34,200	40,389	0	34,200	34,200	
5116 HEALTH INS IN LIEU PMTS	9,800	9,600	9,600	8,800	0	9,600	9,600	
5123 WELLNESS PROGRAM	650	600	600	530	0	600	600	
5124 EDUCATION INCENTIVE	6,037	6,000	6,000	2,677	0	6,000	6,000	
5210 CONTRACT SERVICE	102,196	140,000	140,000	97,778	0	140,000	135,000	
5230 GENERAL LIABILITY INSURANCE	291,047	341,600	341,600	330,345	0	341,600	341,600	
5240 M & O IMPROVEMENTS	324,788	500,000	500,000	154,473	0	500,000	160,000	
5241 MAINTENANCE OF EQUIPMENT	104,363	360,000	360,000	237,364	0	360,000	415,000	
5242 VEHICLE FUEL	31,756	40,000	40,000	24,379	0	40,000	32,000	
5243 VEHICLE LEASES	35,625	35,000	35,000	91,701	0	35,000	56,000	
5250 PUBLICATION/DUES	27,619	30,000	30,000	27,259	0	30,000	30,000	
5260 TELEPHONE	9,689	12,000	12,000	6,605	0	12,000	8,000	
5262 TESTING SERVICES	37,916	45,000	45,000	23,154	0	45,000	45,000	
5263 CHEMICALS	96,507	100,000	100,000	65,375	0	100,000	120,000	
5265 TRAINING/EDUCATION	3,430	7,500	7,500	4,220	0	7,500	7,500	
5270 TRAVEL & MEETINGS	5,705	11,500	11,500	6,853	0	11,500	12,000	
5280 UTILITIES - ELECTRIC	324,289	375,000	375,000	260,581	0	375,000	360,000	
5281 UTILITIES - GAS	603	1,500	1,500	588	0	1,500	1,000	
5301 OFFICE SUPPLIES	4,049	5,000	5,000	4,804	0	5,000	8,000	
5302 CUSTODIAL SUPPLIES	1,805	2,500	2,500	1,866	0	2,500	2,500	

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 55 - WASTEWATER								
Expenditures								
Dept: 520 WASTEWATER OPERATIONS								
5303 BANK CHARGES	90,100	80,000	80,000	75,091	0	80,000	80,000	
5305 POSTAGE/FREIGHT	5,555	5,700	5,700	4,844	0	5,700	5,700	
5310 SAFETY/EQUIPMENT/CLOTHING	5,616	10,000	10,000	9,240	0	10,000	15,000	
5320 SMALL TOOLS	6,992	11,000	11,000	9,207	0	11,000	11,000	
5330 SPECIAL DEPARTMENTAL SUPPLIES	3,196	31,000	31,000	34,952	0	31,000	33,000	
5440 EQUIPMENT - AUTOMOTIVE	0	70,000	70,000	66,003	0	70,000		
5442 EQUIPMENT - OTHER	8,028	25,000	25,000	13,522	0	25,000	10,000	
5520 DEBT SERVICE - PRINCIPAL	624,746	840,000	840,000	838,582	0	840,000	840,000	
5521 TRUSTEE FEES	-42,155	5,000	5,000	2,500	0	5,000	5,000	
5523 DEBT SERVICE - INTEREST	0	634,513	634,513	599,552	0	634,500	634,500	
5910 OPERATING TRANSFERS OUT	1,200,000	1,300,000	1,277,900	984,525	0	1,277,900	1,280,000	
Dept: 555 COLLECTIONS & DISTRIBUTION								
5101 SALARIES - FULL TIME	53,619	152,600	152,600	53,655	0	152,600	152,600	
5111 RETIREMENT	8,809	12,000	12,000	4,271	0	12,000	12,000	
5112 FICA	4,489	11,600	11,600	3,748	0	11,600	11,600	
5113 WORKER'S COMP	0	9,500	9,500	9,500	0	9,500	9,500	
5114 UNEMPLOYMENT INS.	168	300	300	513	0	300	300	
5115 HEALTH INSURANCE	8,316	22,800	22,800	8,651	0	22,800	22,800	
5116 HEALTH INS IN LIEU PMTS	4,600	4,800	4,800	200	0	4,800	4,800	
5210 CONTRACT SERVICE	17,500	115,000	115,000	73,249	0	115,000	166,000	
5241 MAINTENANCE OF EQUIPMENT	337,841	300,000	300,000	155,768	0	300,000	320,000	
5242 VEHICLE FUEL	1,052	6,000	6,000	369	0	6,000	2,000	
5250 PUBLICATION/DUES	3,945	4,000	4,000	3,963	0	4,000	16,000	
5265 TRAINING/EDUCATION	925	2,000	2,000	1,850	0	2,000	2,500	
5270 TRAVEL & MEETINGS	2,918	6,000	6,000	486	0	6,000	6,500	
5310 SAFETY/EQUIPMENT/CLOTHING	979	1,500	1,500	1,228	0	1,500	8,500	
5320 SMALL TOOLS	0	15,000	15,000	6,962	0	15,000	5,000	
5910 OPERATING TRANSFERS OUT	342,000	544,700	544,700	408,525	0	544,700	550,000	
Total Expenditures	4,730,622	6,846,613	6,824,513	5,350,777	0	6,824,500	6,557,900	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 56 - WASTEWATER CAPACITY								
Revenues								
Dept: 000								
4563 SEWER CAPACITY FEES	454,545	306,000	306,000	231,064	0	306,000	306,000	
4610 INTEREST EARNED	82,110	96,900	96,900	37,278	0	96,900	96,900	
Total Revenues	536,655	402,900	402,900	268,342	0	402,900	402,900	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 58 - TRUST FUND - IMPERIAL								
Revenues								
Dept: 000								
4610 INTEREST EARNED	3,977	0	0	1,250	0			
Total Revenues	3,977	0	0	1,250	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 61 - CFD BRATTON PASEO 91740/45								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	509,087	517,200	517,200	500,311	0	510,000	510,000	
4123 SPECIAL TAXES CFD (SERVICES)	91,712	99,000	99,000	93,874	0	92,000	92,000	
4610 INTEREST EARNED	18,754	25,500	25,500	6,137	0	8,000	8,000	
Total Revenues	619,553	641,700	641,700	600,322	0	610,000	610,000	0
Expenditures								
Dept: 191 CFD BRATTON-PASEO								
5205 PROFESSIONAL SERVICES	8,247	15,700	15,700	75,202	0	40,000	40,000	
5210 CONTRACT SERVICE	11,316	15,000	15,000	9,551	0	15,000	15,000	
5241 MAINTENANCE OF EQUIPMENT	15,539	15,000	15,000	4,652	0	8,000	8,000	
5242 VEHICLE FUEL	3,688	5,000	5,000	1,797	0	2,500	2,500	
5302 CUSTODIAL SUPPLIES	1,087	2,500	2,500	719	0	1,500	1,500	
5320 SMALL TOOLS	478	2,000	2,000	979	0	1,000	1,000	
5520 DEBT SERVICE - PRINCIPAL	255,000	270,000	270,000	265,000	0	270,000	270,000	
5521 TRUSTEE FEES	0	0	0	5,000	0	5,000	5,000	
5523 DEBT SERVICE - INTEREST	140,374	144,694	144,694	130,460	0	132,000	132,000	
5525 DEVELOPER REIMBURSEMENTS	50,000	40,000	40,000	40,000	0	40,000	40,000	
5910 OPERATING TRANSFERS OUT	65,000	65,000	65,000	48,750	0	65,000	65,000	
Total Expenditures	550,729	574,894	574,894	582,110	0	580,000	580,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 62 - CFD MAYFIELD 91760/65								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	158,949	233,900	233,900	161,779	0	162,000	162,000	
4123 SPECIAL TAXES CFD (SERVICES)	67,099	56,600	56,600	68,675	0	68,000	68,000	
4610 INTEREST EARNED	5,643	12,200	12,200	1,016	0	2,000	2,000	
Total Revenues	231,691	302,700	302,700	231,470	0	232,000	232,000	0
Expenditures								
Dept: 192 CFD MAYFIELD								
5205 PROFESSIONAL SERVICES	6,131	15,700	15,700	36,816	0	45,000	45,000	
5210 CONTRACT SERVICE	9,750	15,600	15,600	8,095	0	10,000	10,000	
5520 DEBT SERVICE - PRINCIPAL	87,000	185,000	185,000	90,000	0	90,000	90,000	
5521 TRUSTEE FEES	0	0	0	2,000	0	2,000	2,000	
5523 DEBT SERVICE - INTEREST	86,283	184,400	184,400	79,575	0	80,000	80,000	
Total Expenditures	189,164	400,700	400,700	216,486	0	227,000	227,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 63 - CFD MONTERREY 91770/75								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	576,443	576,800	576,800	653,346	0	576,800	576,800	
4123 SPECIAL TAXES CFD (SERVICES)	103,226	90,900	90,900	110,739	0	90,900	90,900	
4610 INTEREST EARNED	18,927	30,600	30,600	7,064	0	10,000	10,000	
Total Revenues	698,596	698,300	698,300	771,149	0	677,700	677,700	0
Expenditures								
Dept: 193 CFD MONTERREY								
5210 CONTRACT SERVICE	10,482	15,600	15,600	8,864	0	10,000	10,000	
5241 MAINTENANCE OF EQUIPMENT	11,203	10,000	10,000	4,644	0	7,500	7,500	
5242 VEHICLE FUEL	2,950	4,000	4,000	1,438	0	3,000	3,000	
5302 CUSTODIAL SUPPLIES	1,087	2,600	2,600	881	0	1,000	1,000	
5320 SMALL TOOLS	478	5,000	5,000	979	0	2,000	2,000	
5520 DEBT SERVICE - PRINCIPAL	275,000	300,000	300,000	279,817	0	280,000	280,000	
5521 TRUSTEE FEES	0	0	0	10,000	0	10,000	10,000	
5523 DEBT SERVICE - INTEREST	145,579	172,544	172,544	145,339	0	146,000	146,000	
5525 DEVELOPER REIMBURSEMENTS	81,000	70,000	70,000	70,000	0	70,000	70,000	
5910 OPERATING TRANSFERS OUT	65,000	65,000	65,000	48,750	0	65,000	65,000	
Total Expenditures	592,779	644,744	644,744	570,712	0	594,500	594,500	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 71 - CFD SAVANNAH 91720/25								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	330,660	338,600	338,600	357,541	0	355,000	355,000	
4123 SPECIAL TAXES CFD (SERVICES)	90,056	88,200	88,200	94,099	0	92,000	92,000	
4610 INTEREST EARNED	13,534	20,400	20,400	5,619	0	6,000	6,000	
Total Revenues	434,250	447,200	447,200	457,259	0	453,000	453,000	0
Expenditures								
Dept: 194 CFD SAVANNAH								
5210 CONTRACT SERVICE	10,485	61,400	61,400	9,214	0	10,000	10,000	
5241 MAINTENANCE OF EQUIPMENT	16,677	48,000	48,000	7,074	0	15,000	15,000	
5242 VEHICLE FUEL	2,950	4,000	4,000	1,438	0	3,000	3,000	
5302 CUSTODIAL SUPPLIES	544	5,000	5,000	441	0	500	500	
5320 SMALL TOOLS	478	5,000	5,000	979	0	5,000	5,000	
5520 DEBT SERVICE - PRINCIPAL	180,000	210,000	210,000	195,000	0	195,000	195,000	
5523 DEBT SERVICE - INTEREST	86,688	102,394	102,394	52,837	0	60,000	60,000	
5910 OPERATING TRANSFERS OUT	65,000	65,000	65,000	48,750	0	65,000	65,000	
Total Expenditures	362,822	500,794	500,794	315,733	0	353,500	353,500	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 73 - CFD SPRINGFIELD 91730/35								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	449,969	460,100	460,100	445,880	0	450,000	450,000	
4123 SPECIAL TAXES CFD (SERVICES)	51,533	50,100	50,100	52,150	0	50,100	50,100	
4610 INTEREST EARNED	12,334	23,500	23,500	3,929	0	4,000	4,000	
Total Revenues	513,836	533,700	533,700	501,959	0	504,100	504,100	0
Expenditures								
Dept: 195 CFD SPRINGFIELD								
5210 CONTRACT SERVICE	8,266	12,000	12,000	6,938	0	8,000	8,000	
5241 MAINTENANCE OF EQUIPMENT	12,494	10,000	10,000	2,851	0	5,000	5,000	
5242 VEHICLE FUEL	1,475	2,000	2,000	719	0	2,000	2,000	
5302 CUSTODIAL SUPPLIES	544	2,000	2,000	441	0	500	500	
5320 SMALL TOOLS	478	1,500	1,500	979	0	1,500	1,500	
5520 DEBT SERVICE - PRINCIPAL	240,000	250,000	250,000	240,000	0	240,000	240,000	
5521 TRUSTEE FEES	0	0	0	5,000	0	5,000	5,000	
5523 DEBT SERVICE - INTEREST	144,411	156,763	156,763	139,687	0	140,000	140,000	
5910 OPERATING TRANSFERS OUT	65,000	65,000	65,000	48,750	0	65,000	65,000	
Total Expenditures	472,668	499,263	499,263	445,365	0	467,000	467,000	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 74 - CFD VICTORIA 91750/55								
Revenues								
Dept: 000								
4122 SPECIAL TAXES CFD (FACILITIES)	441,215	446,100	446,100	440,735	0	445,000	445,000	
4123 SPECIAL TAXES CFD (SERVICES)	128,794	125,800	125,800	132,589	0	132,000	132,000	
4610 INTEREST EARNED	17,448	22,400	22,400	7,707	0	10,000	10,000	
Total Revenues	587,457	594,300	594,300	581,031	0	587,000	587,000	0
Expenditures								
Dept: 196 CFD VICTORIA								
5210 CONTRACT SERVICE	11,166	15,000	15,000	9,251	0	12,000	12,000	
5241 MAINTENANCE OF EQUIPMENT	13,790	8,000	8,000	3,532	0	8,000	8,000	
5242 VEHICLE FUEL	7,376	8,200	8,200	3,595	0	7,000	7,000	
5302 CUSTODIAL SUPPLIES	1,630	2,500	2,500	1,159	0	2,500	2,500	
5320 SMALL TOOLS	478	2,000	2,000	979	0	1,000	1,000	
5520 DEBT SERVICE - PRINCIPAL	235,000	250,000	250,000	240,000	0	250,000	250,000	
5521 TRUSTEE FEES	0	0	0	5,000	0	5,000	5,000	
5523 DEBT SERVICE - INTEREST	93,868	152,143	152,143	129,944	0	140,000	140,000	
5910 OPERATING TRANSFERS OUT	65,000	65,000	65,000	48,750	0	65,000	65,000	
Total Expenditures	428,308	502,843	502,843	442,210	0	490,500	490,500	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 94 - SUCCESSOR AGENCY FUND								
Revenues								
Dept: 000								
4110 PROPERTY TAXES - SECURED	1,681,006	1,525,400	1,525,400	1,717,444	0	1,800,000	1,800,000	
4610 INTEREST EARNED	26,567	147,900	147,900	28,213	0	35,000	35,000	
Total Revenues	1,707,573	1,673,300	1,673,300	1,745,657	0	1,835,000	1,835,000	0
Expenditures								
Dept: 904 SUCCESSOR AGENCY								
5210 CONTRACT SERVICE	3,700	7,500	7,500	3,700	0	3,700	3,700	
5520 DEBT SERVICE - PRINCIPAL	562,452	900,000	900,000	875,000	0	900,000	900,000	
5521 TRUSTEE FEES	9,000	9,200	9,200	9,000	0	9,200	9,200	
5523 DEBT SERVICE - INTEREST	0	491,031	491,031	537,530	0	530,000	530,000	
5910 OPERATING TRANSFERS OUT	250,000	250,000	250,000	187,500	0	250,000	250,000	
Total Expenditures	825,152	1,657,731	1,657,731	1,612,730	0	1,692,900	1,692,900	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 95 - SUCCESSOR RDA HOUSING FUND								
Revenues								
Dept: 000								
4610 INTEREST EARNED	280	5,200	5,200	257	0			
Total Revenues	280	5,200	5,200	257	0	0	0	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Current Year Actual Thru June	Current Year Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 96 - SUCCESSOR RDA PROJECT FUND								
Revenues								
Dept: 000								
4610 INTEREST EARNED	11,932	4,100	4,100	5,598	0	4,100	4,100	
Total Revenues	11,932	4,100	4,100	5,598	0	4,100	4,100	0

Month: 6/30/2026	Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 97 - SUCCESSOR AGENCY RENTALS								
Revenues								
Dept: 000								
4610 INTEREST EARNED	2,623	2,000	2,000	1,402	0	2,000	2,000	
4620 RENTS	10,304	83,200	83,200	21,916	0	20,000	20,000	
Total Revenues	12,927	85,200	85,200	23,318	0	22,000	22,000	0

Month: 6/30/2026		Prior Year Actual	Original Budget	Amended Budget	Actual Thru June	Estimated Total	(6) FY27 REQ	(7) FY27 REC	(8) FY27 ADOPT
Fund: 98 - SUCCESSOR RDA DEBT SERVIC									
Revenues									
Dept: 000									
4610 INTEREST EARNED		2,026	2,200	2,200	950	0	2,200	2,200	
Total Revenues		2,026	2,200	2,200	950	0	2,200	2,200	0
	Grand Total:	-3,763,224	-13,726,373	-517,932	-7,729,687	0	1,961,000	3,357,400	0

		Vacancy Update				FY 2026-2027 SUPPLEMENTAL CHANGES					
FY 2025-2026 BUDGET	FY 2025-2026	Filled	Vacant	Current	Hourly rate	FY 2026-2027 BUDGET UPDATES	FY 2026-2027	Proposed	Proposed	Filled	Vacant	FY 2026-2027
Council Approved Positions	FTE Count	Allocation	Allocations	Range/Step	w/COLA		FTE Change	Range/Step	Hourly Rate	Allocation	Allocations	FTE Count
City Council												
City Council	5.0	5.0	-				-			5.0	-	5.0
City Clerk	1.0	1.0	-				-			1.0	-	1.0
Total City Council Positions	6.0	6.0	-				-			6.0	-	6.0
City Manager												
City Manager	1.0	1.0	-				-			1.0	-	1.0
Assistant to the City Manager	1.0	1.0	-				-			1.0	-	1.0
Management Analyst	1.0	1.0	-				-			1.0	-	1.0
Assistant City Clerk	1.0	1.0	-				-			1.0	-	1.0
Total City Manager Positions	4.0	4.0	-				-			4.0	-	4.0
Human Resources												
Human Resources and Risk Management Director	1.0	1.0	-				-			1.0	-	1.0
Human Resources Specialist	1.0	1.0	-				-			1.0	-	1.0
Human Resources Analyst	1.0	1.0	-				-			1.0	-	1.0
Total Human Resources Positions	3.0	3.0	-				-			3.0	-	3.0
Administrative Services												
Administrative Services Director	1.0	1.0	-				-			1.0	-	1.0
Finance Manager	1.0	1.0	-				-			1.0	-	1.0
Accountant	1.0	1.0	-				-			1.0	-	1.0
Accounting Technician	1.0	1.0	-				-			1.0	-	1.0
Accounting Assistant II	2.0	2.0	-				-			2.0	-	2.0
Utility Billing Technician	1.0	1.0	-				-			1.0	-	1.0
Total Administrative Positions	7.0	7.0	-				-			7.0	-	7.0
Information Technology												
Information Technology Director	1.0	1.0	-				-			1.0	-	1.0
GIS Project Manager	1.0	1.0	-				-			1.0	-	1.0
Cybersecurity Program Manager	1.0	1.0	-				-			1.0	-	1.0
Network Specialist	1.0	1.0	-				-			1.0	-	1.0
Information Technology Analyst	1.0	1.0	-				-			1.0	-	1.0
Administrative Specialist	1.0	1.0	-				-			1.0	-	1.0
IT Technician II	1.0	1.0	-				-			1.0	-	1.0
Total Information Technology Positions	7.0	7.0	-				-			7.0	-	7.0
Police Department												
Chief of Police	1.0	1.0	-				-			1.0	-	1.0
Police Captain	1.0	1.0	-				-			1.0	-	1.0
Police Chief's Administrative Assistant	1.0	1.0	-				-			1.0	-	1.0
Sergeant	6.0	6.0	-				-			6.0	-	6.0
Police Officer	16.0	15.0	1.0				-			15.0	1.0	16.0
Criminal Intelligence Analyst I	1.0	1.0	-				-			1.0	-	1.0
Police Service Officer III	3.0	3.0	-				-			3.0	-	3.0
Animal Control Officer	1.0	1.0	-				-			1.0	-	1.0
Total Police Positions	30.0	29.0	1.0				-			29.0	1.0	30.0
Public Services												
Public Services Director	1.0	-	1.0				-			-	1.0	1.0

		Vacancy Update				FY 2026-2027 SUPPLEMENTAL CHANGES						
FY 2025-2026 BUDGET	FY 2025-2026	Filled	Vacant	Current	Hourly rate	FY 2026-2027 BUDGET UPDATES	FY 2026-2027	Proposed	Proposed	Filled	Vacant	FY 2026-2027
Council Approved Positions	FTE Count	Allocation	Allocations	Range/Step	w/COLA		FTE Change	Range/Step	Hourly Rate	Allocation	Allocations	FTE Count
Public Services Manager	1.0	1.0	-				-			1.0	-	1.0
Public Services Supervisor	1.0	1.0	-				-			1.0	-	1.0
Fleet and Facilities Supervisor	1.0	1.0	-				-			1.0	-	1.0
Senior Maintenance and Utility Worker	1.0	1.0	-				-			1.0	-	1.0
Senior Equipment Mechanic	1.0	1.0	-				-			1.0	-	1.0
Administrative Assistant	-	-	-			Add and fund one (1) Administrative Assistant Allocation	1.0	60/1	$20.90	-	1.0	1.0
Equipment Mechanic	1.0	1.0	-				-			1.0	-	1.0
Electrician	1.0	1.0	-				-			1.0	-	1.0
HVAC/Electrical Technician	1.0	1.0	-				-			1.0	-	1.0
Facilities Maintenance Worker	1.0	1.0	-				-			1.0	-	1.0
Utility Mainenance Worker II	2.0	2.0	-				-			2.0	-	2.0
Public Services Maintenance Worker II	1.0	1.0	-				-			1.0	-	1.0
Public Services Maintenance Worker I	5.0	3.0	2.0				-			3.0	2.0	5.0
Total Public Services Positions	18.0	15.0	3.0				1.0			15.0	4.0	19.0
Community Development												
Planning Commissioner	5.0	5.0	-				-			5.0	-	5.0
Community Development Director	1.0	1.0	-				-			1.0	-	1.0
Community Development Project Manager	1.0	1.0	-				-			1.0	-	1.0
Building and Code Enforcement Supervisor	1.0	1.0	-				-			1.0	-	1.0
Administrative Assistant	1.0	1.0	-				-			1.0	-	1.0
Building Inspector II	1.0	1.0	-				-			1.0	-	1.0
Code Enforcement Inspector II	1.0	1.0	-				-			1.0	-	1.0
Associate Planner	1.0	1.0	-				-			1.0	-	1.0
Construction Project Coordinator	1.0	1.0	-				-			1.0	-	1.0
Engineering Technician II	-	-	-				-			-	-	-
Engineering Technician I	2.0	2.0	-				-			2.0	-	2.0
Community Development Technician II	1.0	1.0	-				-			1.0	-	1.0
Organic Waste Specialist (Limited Term)	1.0	1.0	-				-			1.0	-	1.0
Total Community Development Positions	17.0	17.0	-				-			17.0	-	17.0
Library												
Library Manager	1.0	1.0	-				-			1.0	-	1.0
Administrative Assistant	1.0	1.0	-				-			1.0	-	1.0
Librarian	1.0	1.0	-				-			1.0	-	1.0
Literacy Coordinator	1.0	1.0	-				-			1.0	-	1.0
Library Grant Coordinator	1.0	1.0	-				-			1.0	-	1.0
Library Technician	1.0	1.0	-				-			1.0	-	1.0
Library Clerk	2.0	2.0	-				-			2.0	-	2.0
Library Page 0.5 PT	0.5	-	0.5				-			-	0.5	0.5
Lunch at the Library Intern 0.5 PT Seasonal	1.0	1.0	-			Add and fund one (1) 0.5 PT Seasonal Lunch at the Library Intern (Grant-Funded) Allocation	0.5	55/1	$18.47	1.0	0.5	1.5
Recreation Leader 0.5 PT Seasonal	0.5	0.5	-				-			0.5	-	0.5
Total Library Services Positions	10.0	9.5	0.5				0.5			9.5	1.0	10.5
Parks & Recreation												
Parks & Recreation Director	1.0	1.0	-				-			1.0	-	1.0
Parks and Recreation Manager	-	-	-			Add and fund one (1) Parks and Recreation Manager Allocation	1.0	98/1	$53.41	-	1.0	1.0
Recreation/Special Events Coordinator	2.0	2.0	-				-			2.0	-	2.0
Recreation and Event Specialist II	1.0	1.0	-				-			1.0	-	1.0
Recreation and Event Specialist I	1.0	1.0	-				-			1.0	-	1.0
Administrative Specialist	1.0	1.0	-				-			1.0	-	1.0

		Vacancy Update				FY 2026-2027 SUPPLEMENTAL CHANGES					
FY 2025-2026 BUDGET	FY 2025-2026	Filled	Vacant	Current	Hourly rate	FY 2026-2027 BUDGET UPDATES	FY 2026-2027	Proposed	Proposed	Filled	Vacant	FY 2026-2027
Council Approved Positions	FTE Count	Allocation	Allocations	Range/Step	w/COLA		FTE Change	Range/Step	Hourly Rate	Allocation	Allocations	FTE Count
Parks Maintenance Coordinator	1.0	-	1.0			Unfund and delete one (1) Parks Maintenance Coordinator Allocation	(1.0)			-	-	-
Parks Maintenance Worker II	8.0	8.0					-			8.0	-	8.0
Parks Maintenance Worker I	4.0	2.0	2.0			Unfund and delete one (1) Parks Maintenance Worker I Allocation	(1.0)			2.0	1.0	3.0
Parks Maintenance Worker I - Extra Help	0.5	0.5	-			Unfund and delete one (1) Parks Maintenance Worker I Extra Help Allocation	(0.5)			-	-	-
Lifeguard/Rec Leaders 0.75 PT Seasonal	18.75	18.75	-				-			18.75	-	18.8
Total Parks & Recreation Positions	38.25	35.25	3.0				(1.5)			34.75	2.0	36.75
Water												
Water Plant Chief Operator	1.0	1.0	-				-			1.0	-	1.0
Senior Water Treatment Plant Operator	-	-	-			Add and fund one (1) Senior Water Treatment Plant Operator Allocation	1.0	82/1	$35.98	-	1.0	1.0
Water Treatment Plant Operator III	3.0	3.0	-				-			3.0	-	3.0
Water Treatment Plant Operator II	1.0	1.0	-				-			1.0	-	1.0
Water Treatment Plant Operator I	1.0	1.0	-				-			1.0	-	1.0
Water Meter/Distribution Operator II	1.0	1.0	-			Add and fund one (1) Water Meter/Distribution Operator II Allocation	1.0	74/1	$29.53	1.0	1.0	2.0
Water Meter/Distribution Operator I	1.0	-	1.0				-			-	1.0	1.0
Water Operator-In-Training	-	-	-				-			-	-	-
Public Services Maintenance Worker I	1.0	1.0	-				-			1.0	-	1.0
Total Water Positions	9.0	8.0	1.0				2.0			8.0	3.0	11.0
Wastewater												
Wastewater Plant Chief Operator	1.0	1.0	-				-			1.0	-	1.0
Senior Wastewater Treatment Plant Operator	1.0	1.0	-				-			1.0	-	1.0
Wastewater Treatment Plant Operator III	1.0	1.0	-				-			1.0	-	1.0
Wastewater Treatment Plant Operator II	-	-	-				-			-	-	-
Wastewater Treatment Plant Operator I	2.0	2.0	-				-			2.0	-	2.0
Collection System Worker I	2.0	2.0	-				-			2.0	-	2.0
Collection System Worker II	-	-	-				-			-	-	-
Wastewater Operator-In-Training	-	-	-				-			-	-	-
Public Services Maintenance Worker I	2.0	2.0	-				-			2.0	-	2.0
Total Wastewater Positions	9.0	9.0	-				-			9.0	-	9.0
GRAND TOTAL ALL DEPARTMENTS	**158.25**	**149.75**	**8.50**				**2.00**			**149.25**	**11.0**	**160.25**

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CURRENT ORG CHART FY 25-26

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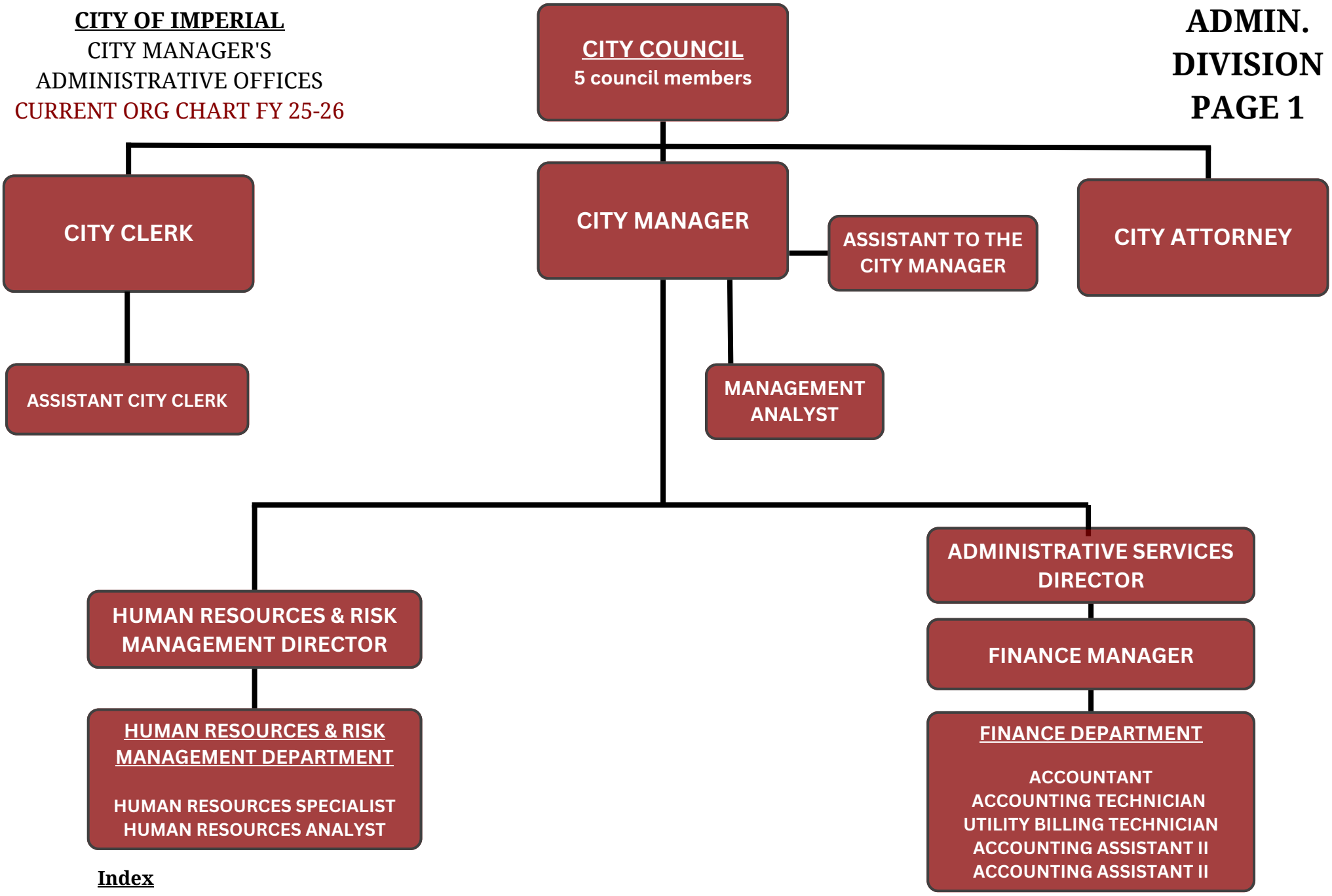

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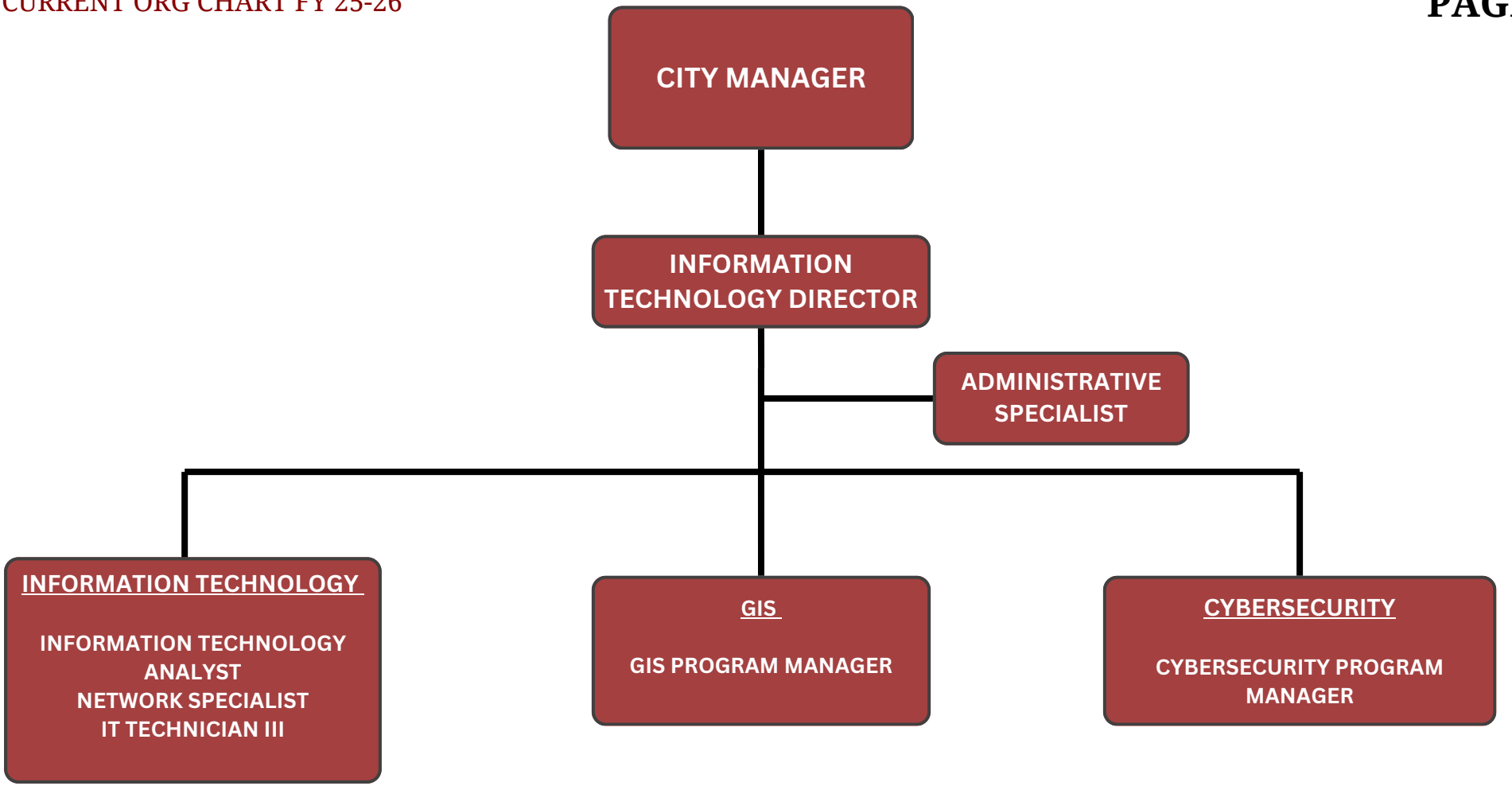

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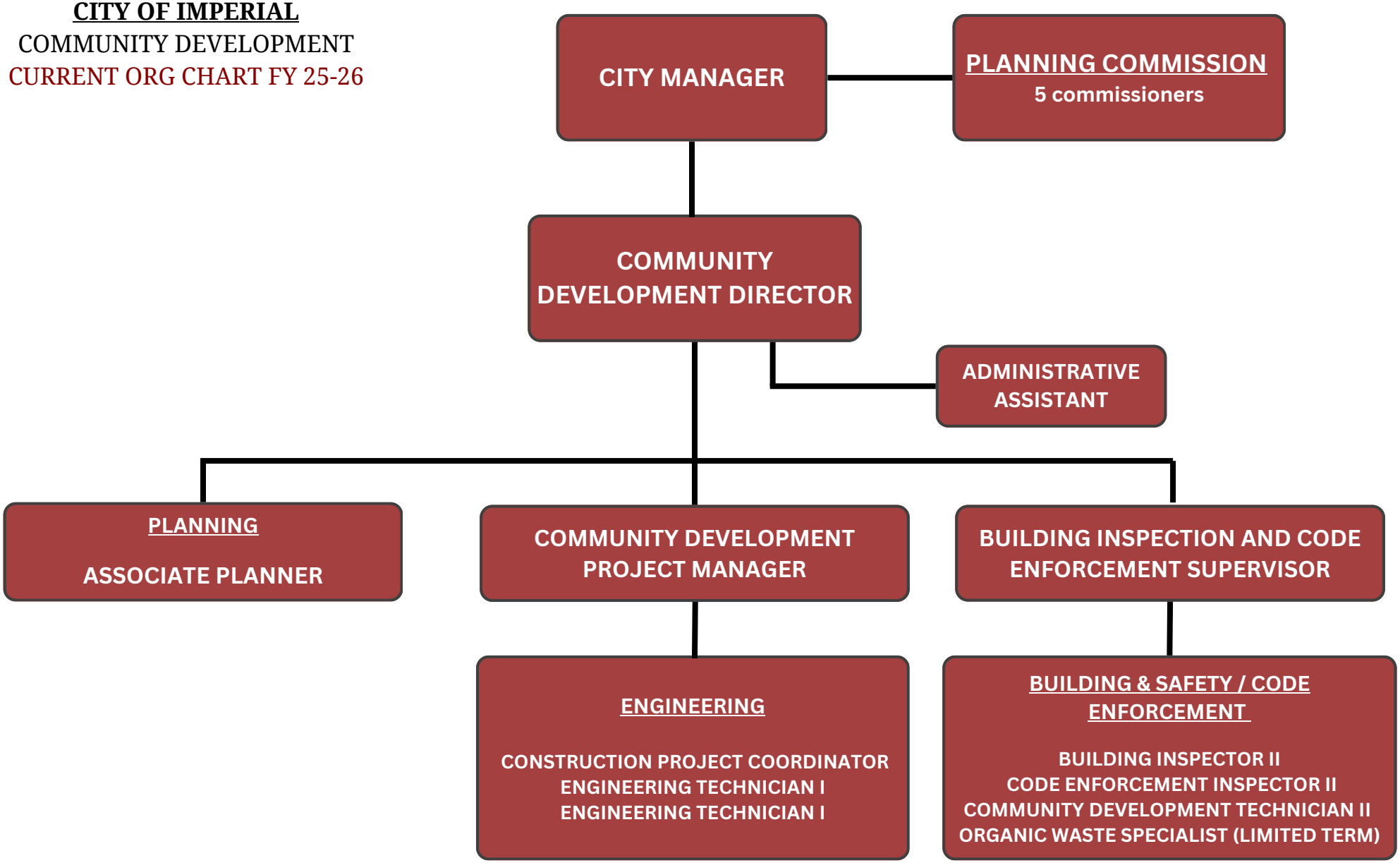

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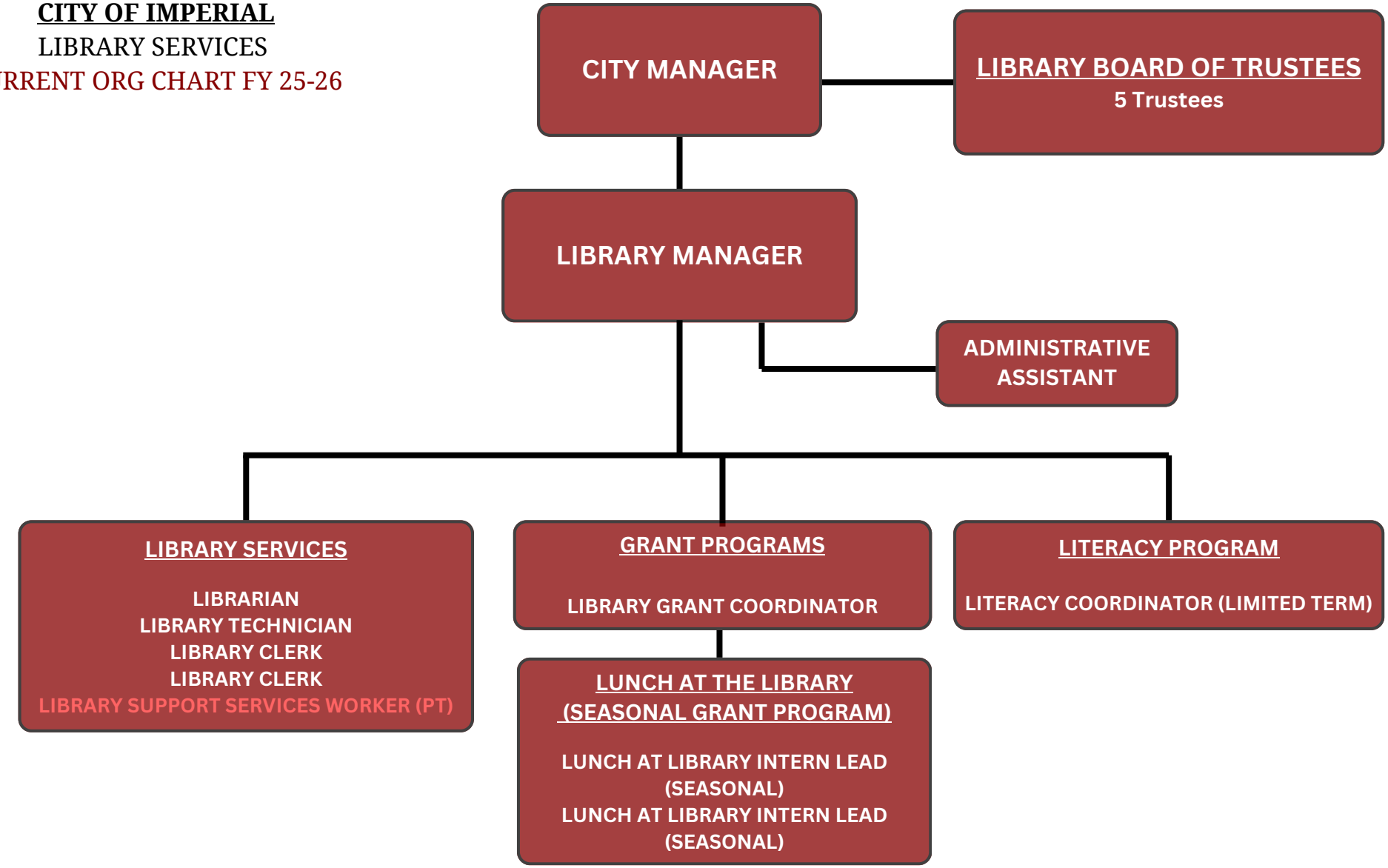

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PT = Part Time

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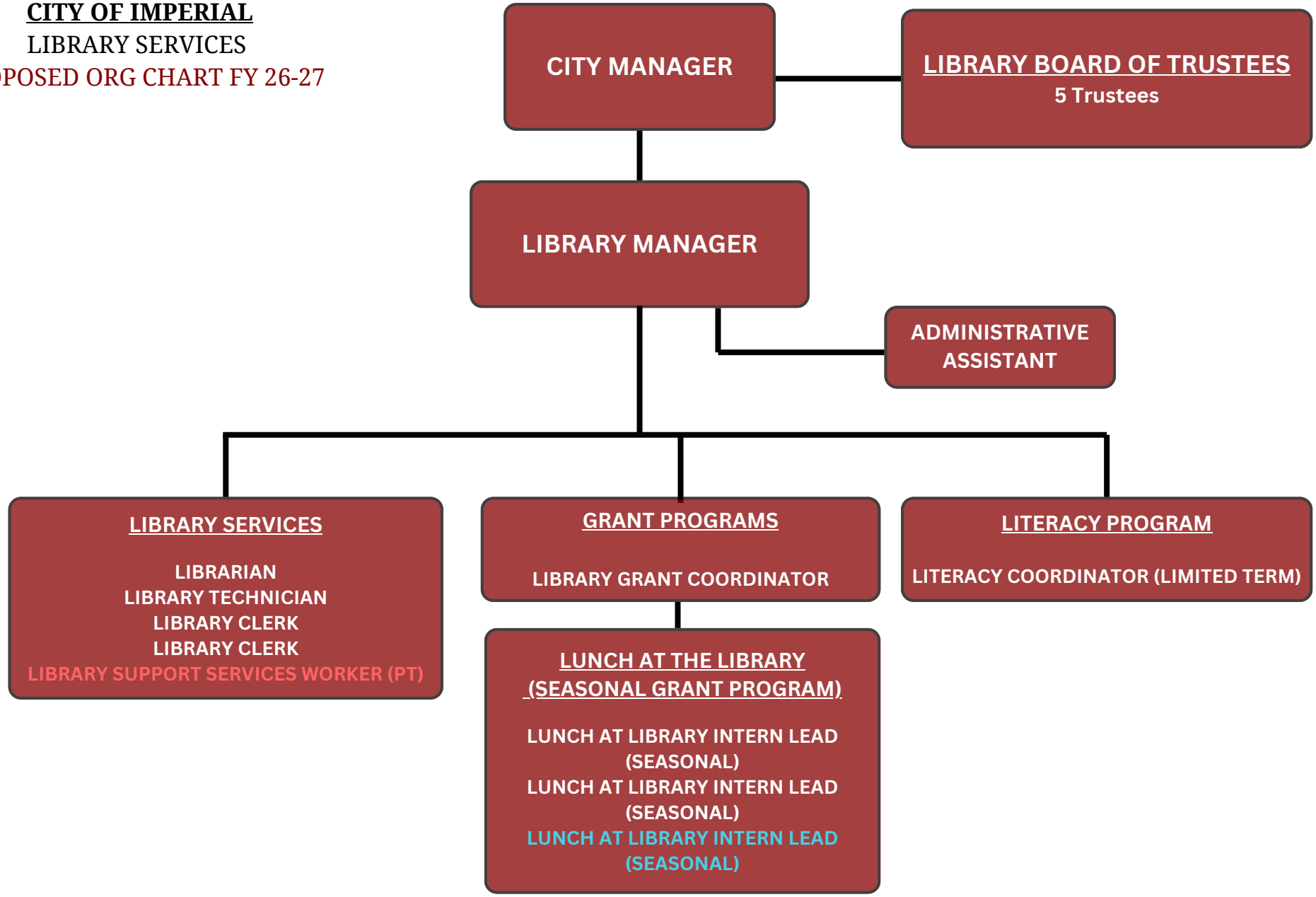

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PARKS AND RECREATION

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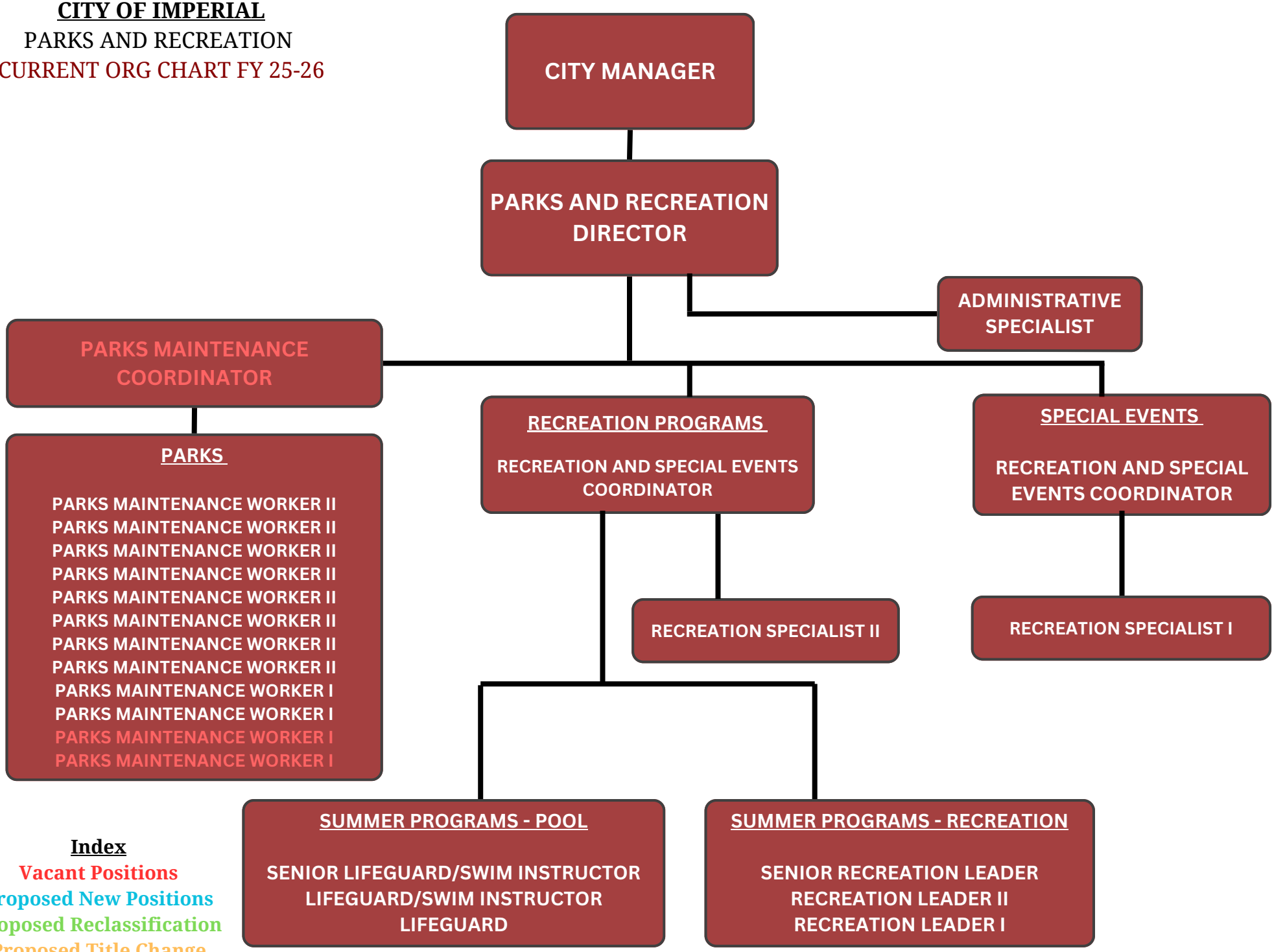

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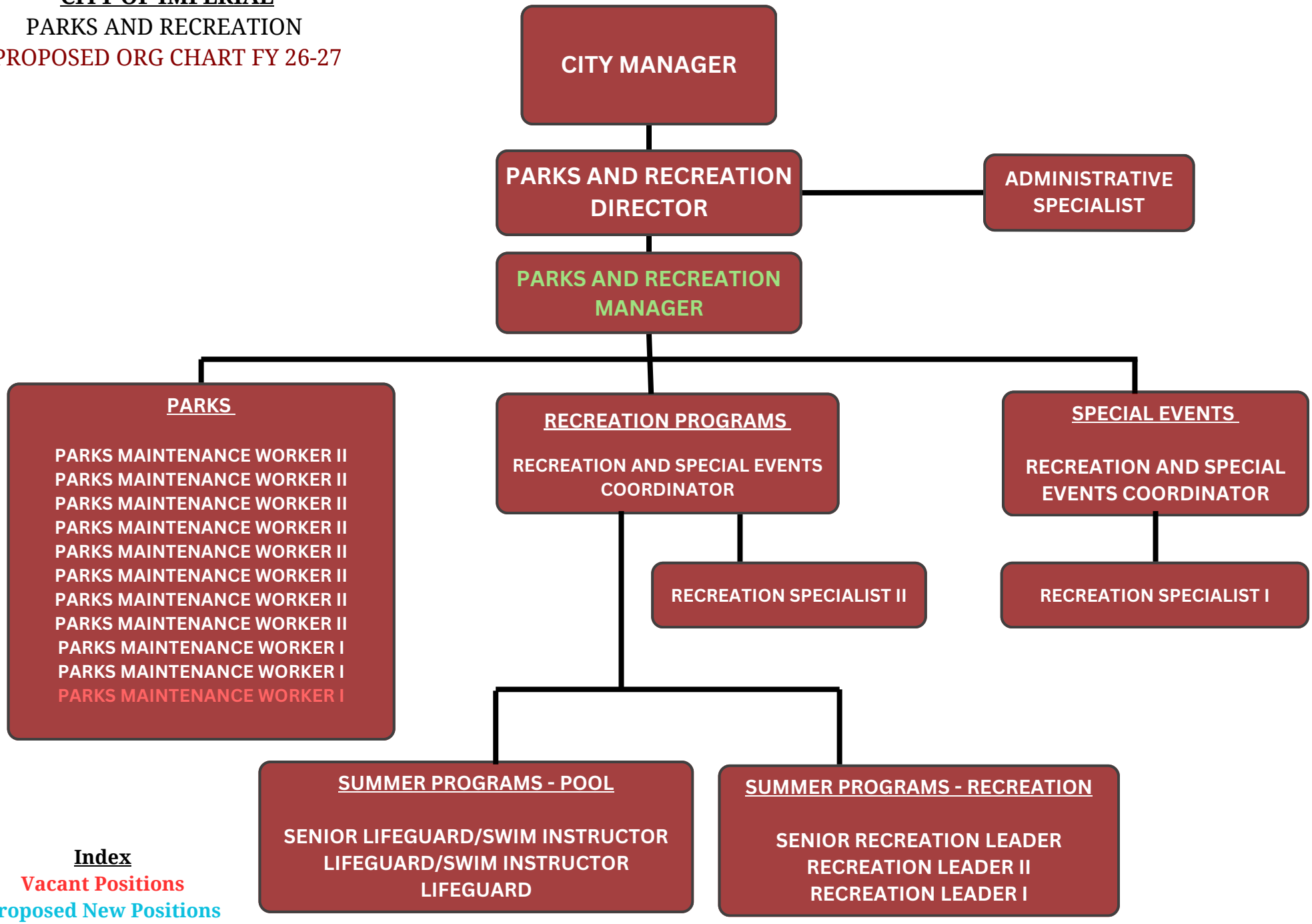

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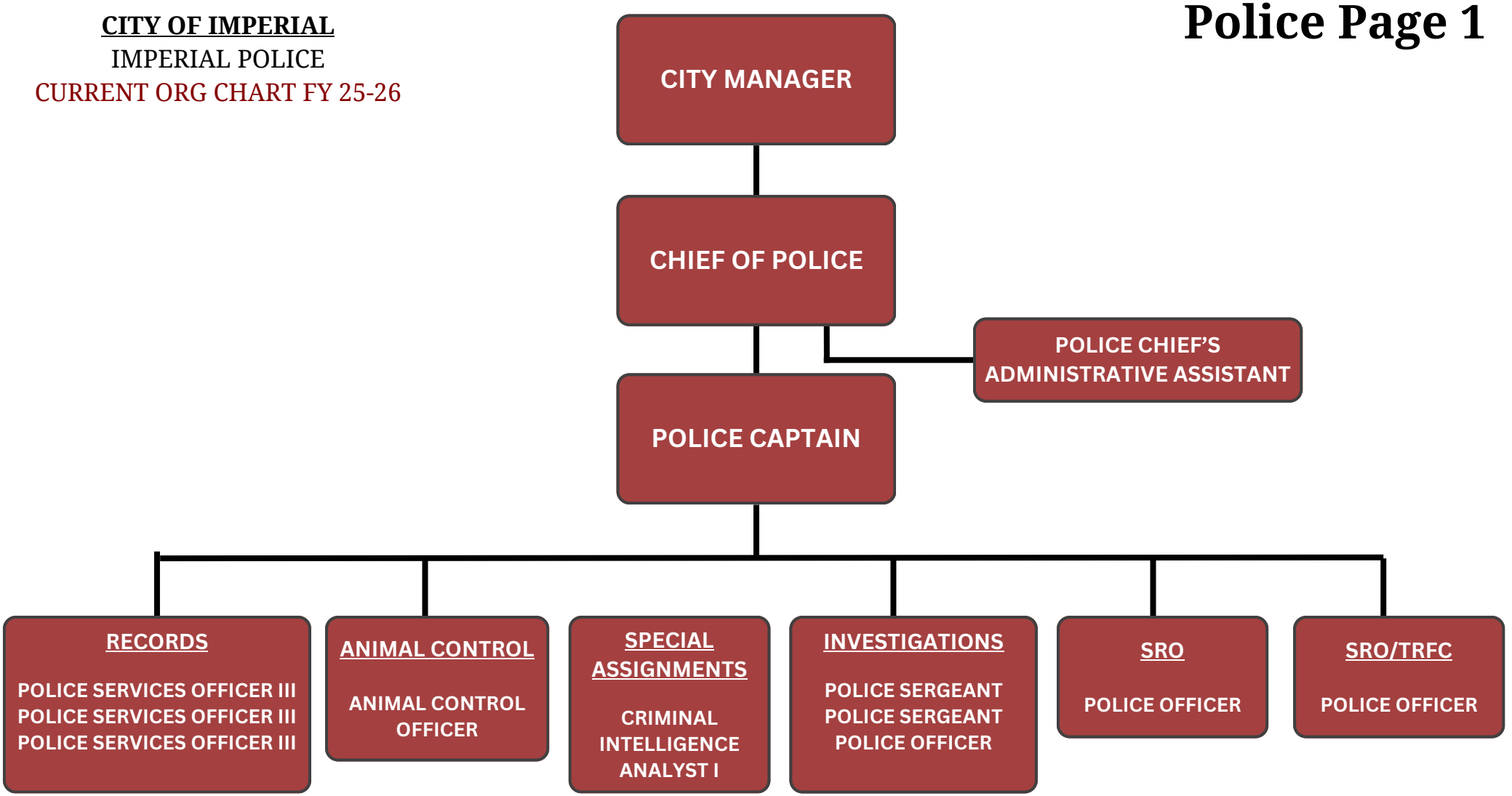

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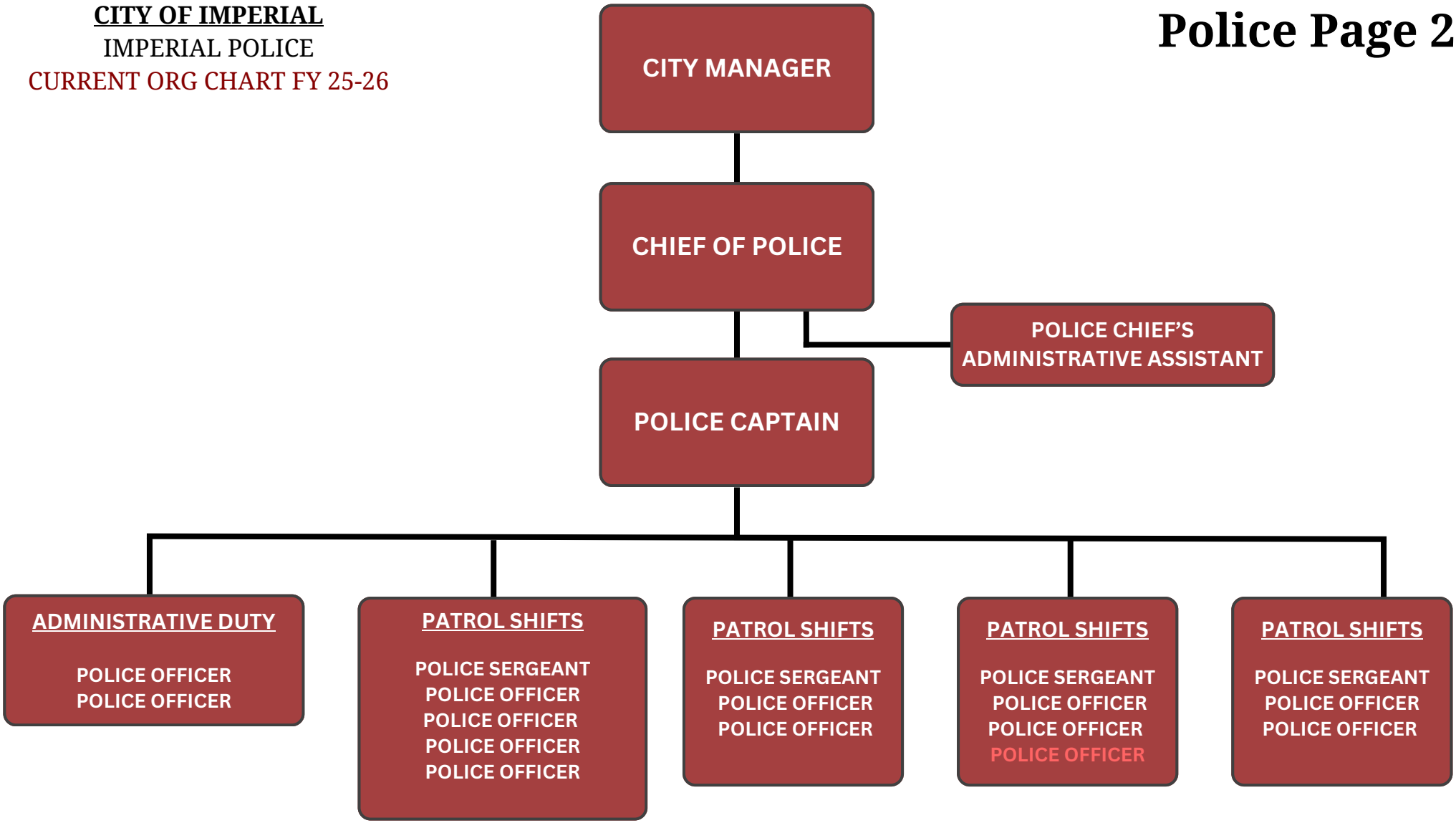

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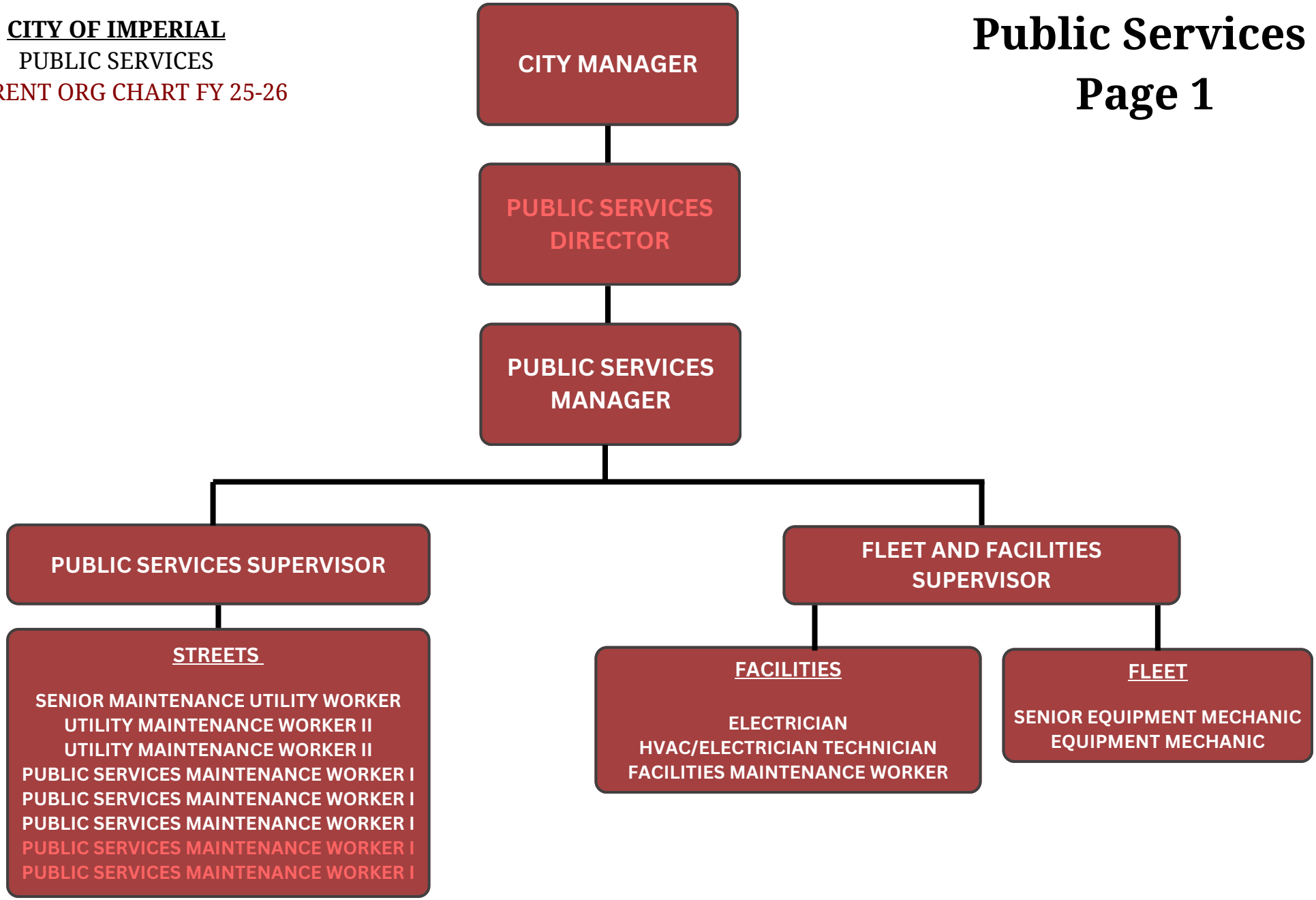

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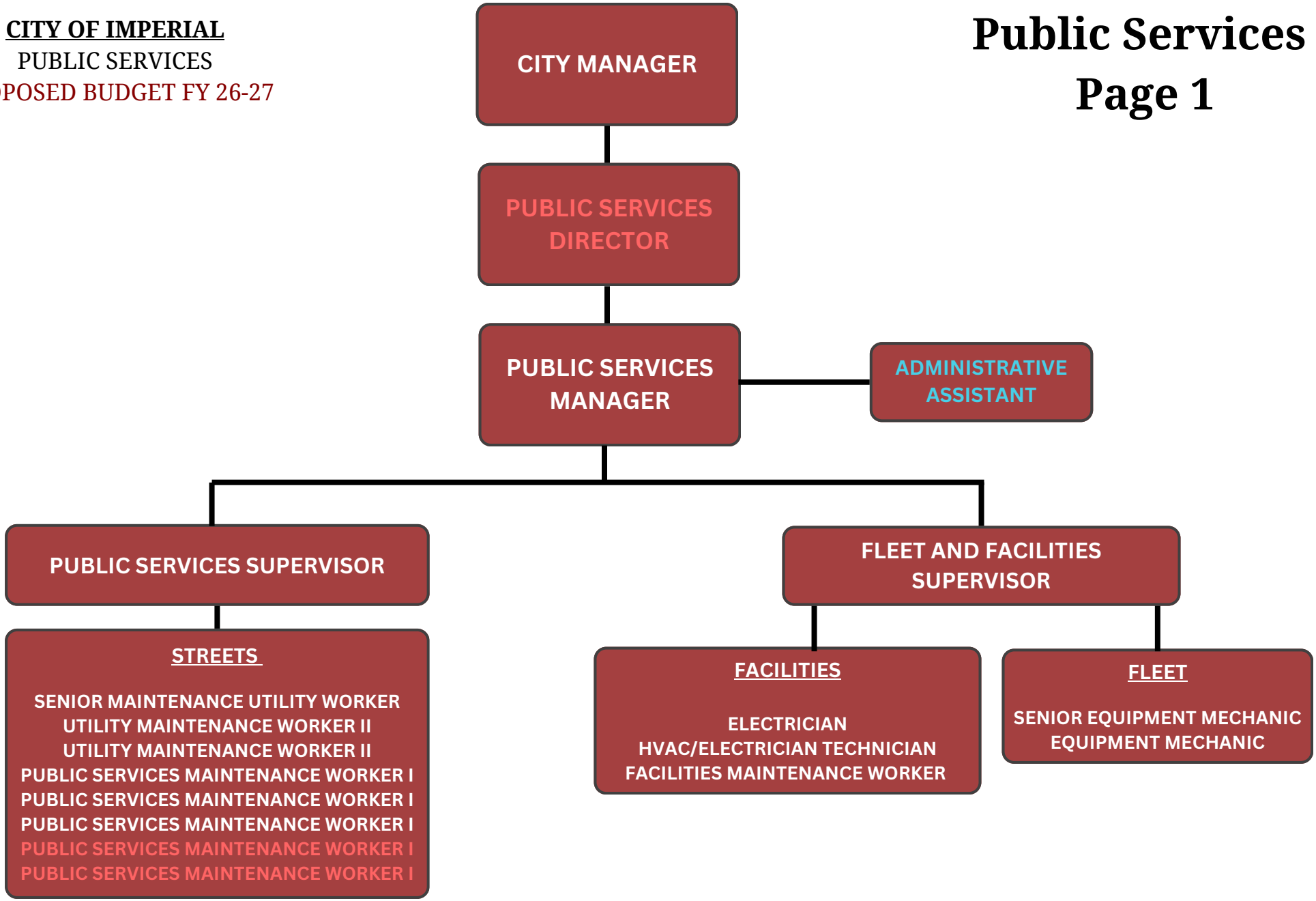

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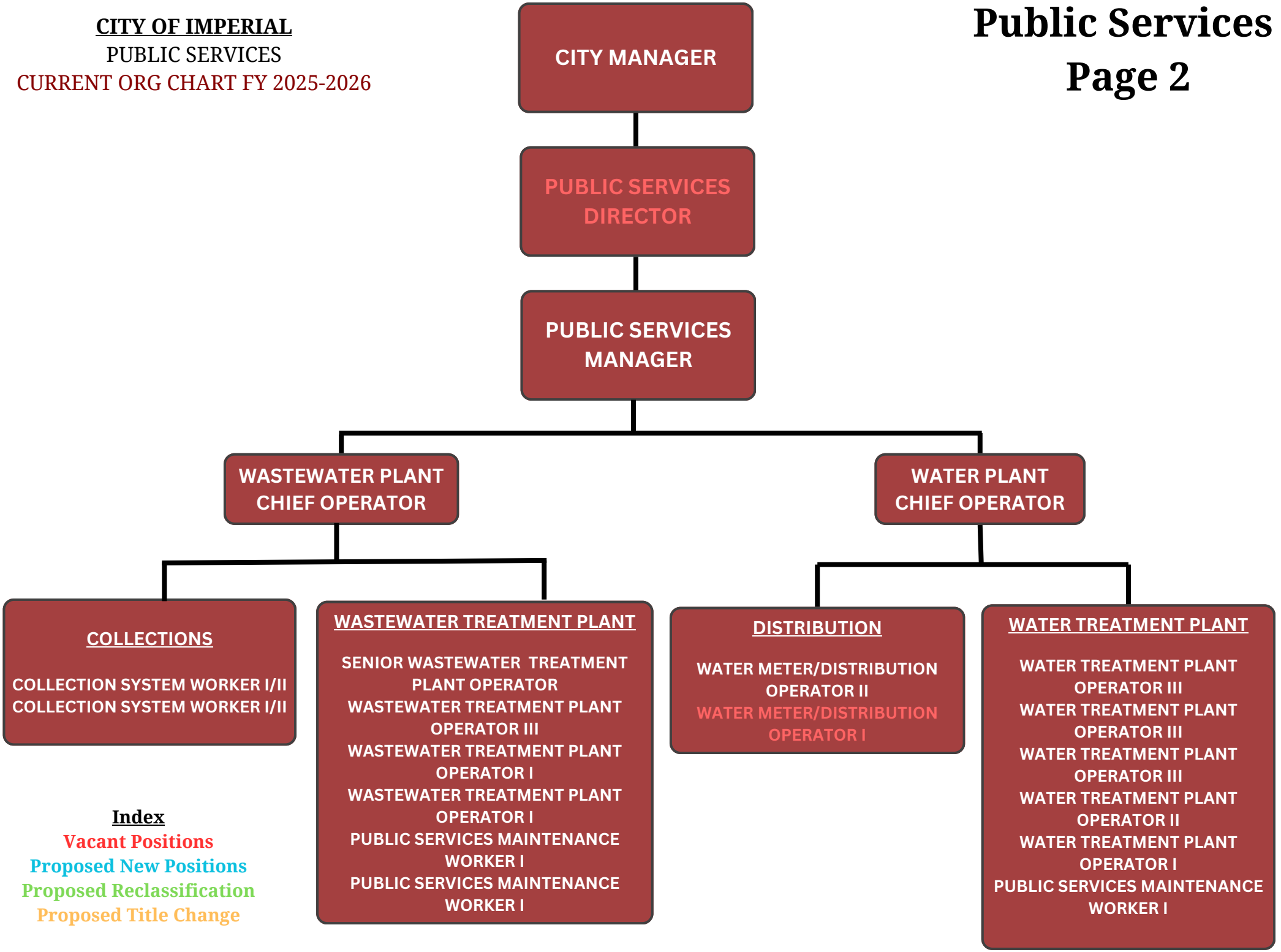

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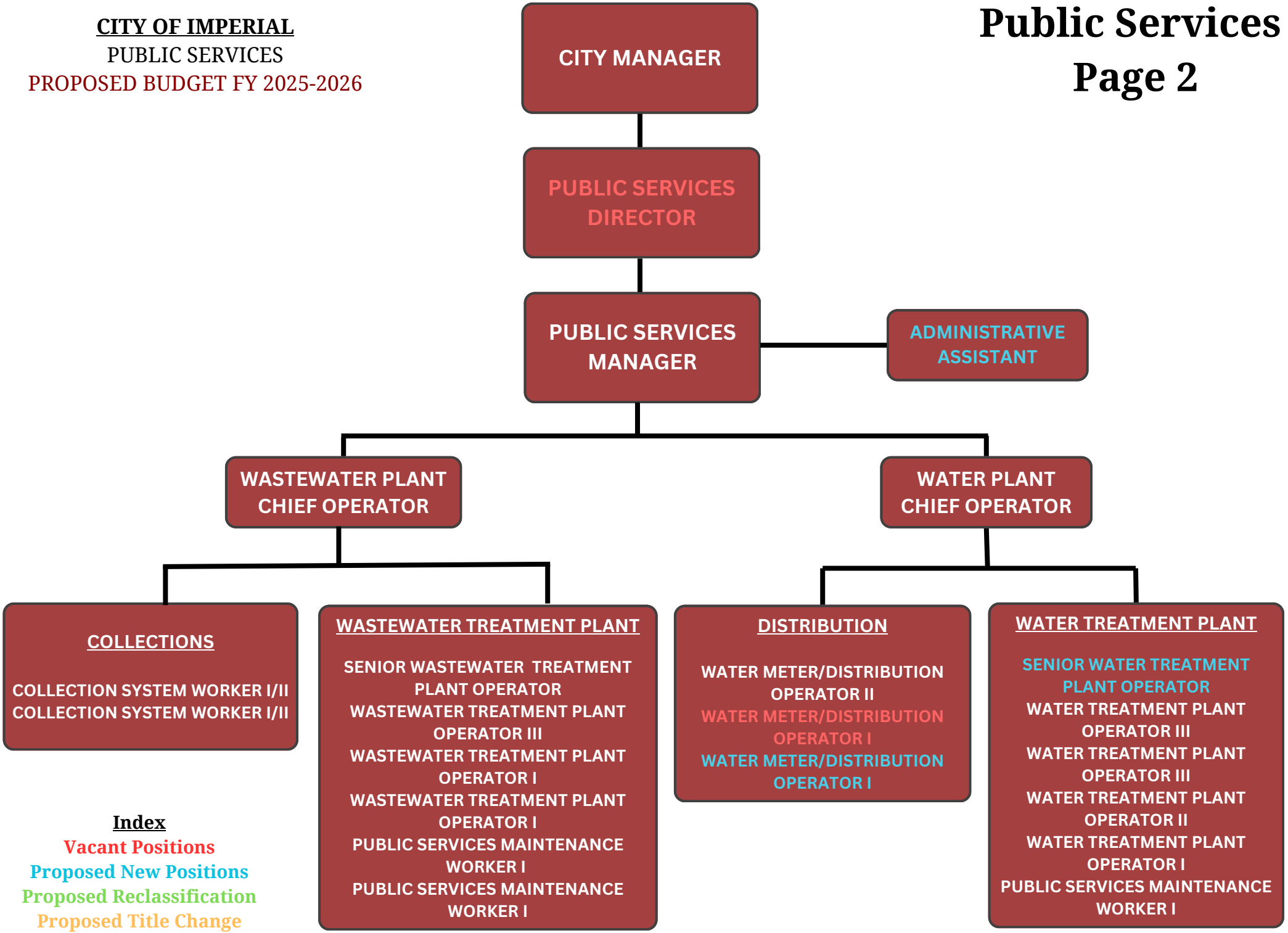

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