Information Technology Department Overview

City Council Meeting
Tuesday, September 19, 2023

Mission:

The Information Technology Department will ensure investments and strategic business technologies are customer focused, sound, and deliver the highest possible value to the City and its constituents

Costa Mesa

Information Technology Services

The Information Technology (IT) Department is responsible for network administration, software development and installation, cybersecurity, and hardware and software maintenance for all City Departments.

Administration
FTE: 6

- Planning
- Budget
- Project
- Personnel Administration
- Workflow Automation
- Purchasing and Financial Analysis
- Contract Administration
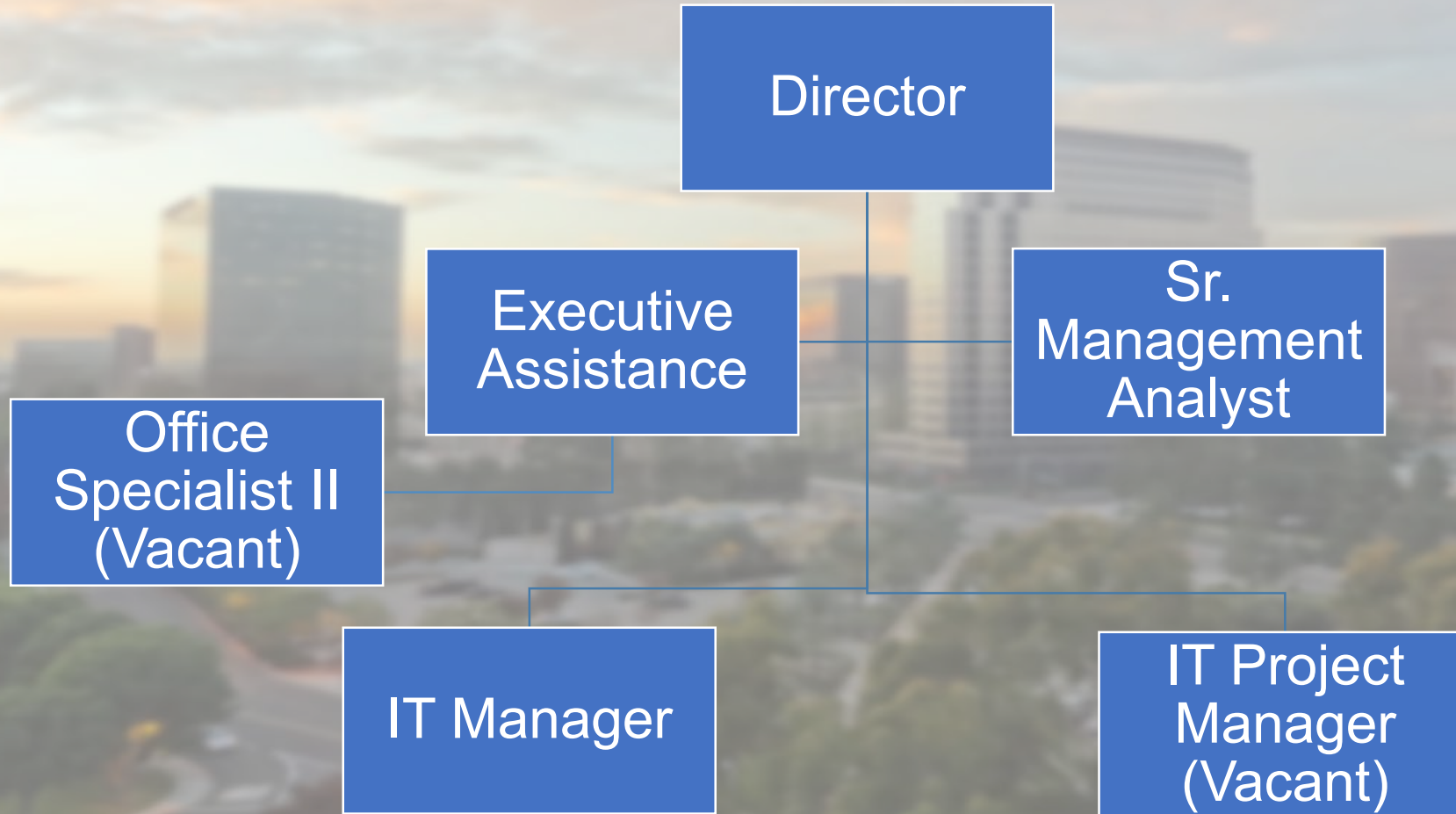- General Office Support
- Mobile Device Management

Computer Operations and Networking
FTE: 7

- Help Desk-Technical Support
- Public Safety Support
- Mobile Command Vehicles
- Network Infrastructure
- Data Centers Services
- Server/System Administration
- Backup/Disaster Recovery
- Mobile Device Management
- Inventory Management
- Cybersecurity
- Physical Security

Systems and Programming
FTE: 9

- Public Safety Systems Support
- GIS System Analysis
- CAD/RMS Systems Support
- Programming Development
  - Intranet development and support
  - Reporting Development
  - Application Maintenance
  - Business Systems
- Systems Training
- Database Administration

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Administration Division

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                    │  Director   │
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         ┌─────────────────┼─────────────────┐
┌─────────────────┐        │        ┌──────────────────┐
│   Executive     │        │        │      Sr.         │
│   Assistance    │        │        │  Management      │
└────────┬────────┘        │        │    Analyst       │
┌────────┴────────┐        │        └──────────────────┘
│     Office      │        │
│  Specialist II  │        │
│   (Vacant)      │        │
└─────────────────┘        │
         ┌─────────────────┴─────────────────┐
┌─────────────────┐              ┌──────────────────┐
│   IT Manager    │              │   IT Project     │
│                 │              │    Manager       │
└─────────────────┘              │   (Vacant)       │
                                 └──────────────────┘
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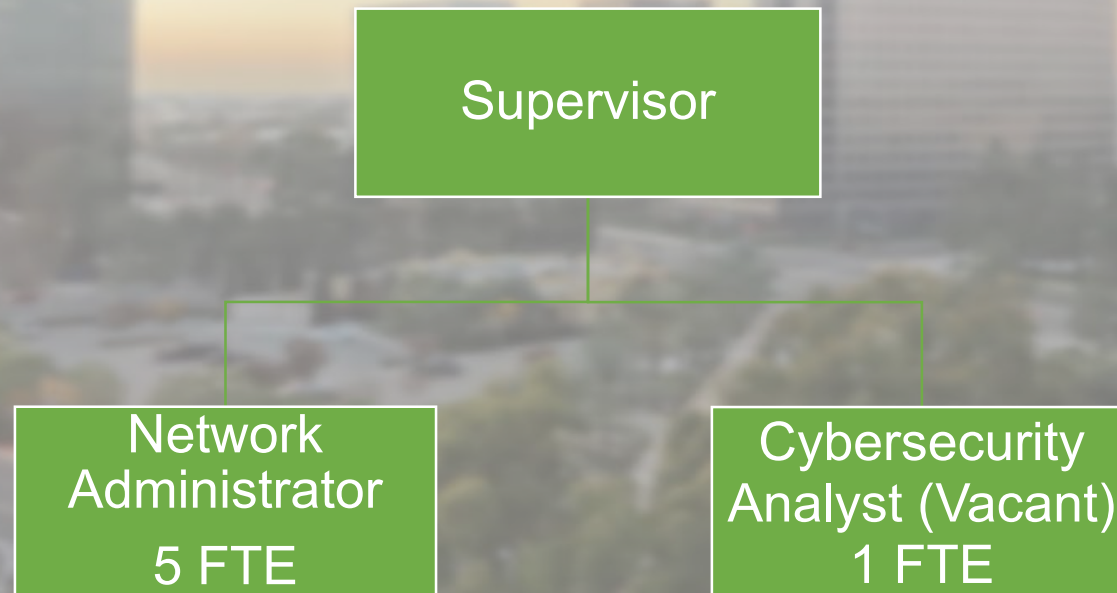
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Administrative Division

- IT Department Oversight
  - Executive team provides guidance and direction to staff performing relevant duties to reach City goals and objectives.

  - Ensure City staff have their IT needs met to allow for completion of smooth business processes.

- Purchasing and Financial Analysis
  - Monitor and manage the department's $8.8 million budget, the $9.6 ITSP budget and 80 contracts.

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Administrative Division: Accomplishments

- Improved efficiencies and Cost Savings

  - Developed and executing 5-year Information Technology Strategic Plan (ITSP).

  - Performed fiber audit to reduce fiber monthly network costs for City Hall.

  - Workflow Automation and e-Forms.

  - Directed a plan to create a standardized single computer work environment to allow staff to work remotely.

  - Identified weaknesses and needs within the network infrastructure; Developed and implemented a plan for improvement.

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Computer Network Operations: Support

IT's Network Administrators support and are responsible for:

- Complete Help Desk requests and technical support for over 1,000 active directory user accounts across 18 facilities along with the following assets:

  - Data Centers
  - Servers
  - 200+ mobile devices
  - Storage appliances
  - Backup tape libraries and storage
  - Mobile Command Vehicles

  - Switches
  - Data circuits and internet connections/solutions
  - Routers
  - Firewalls
  - UPS battery banks

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Computer Network Operations: Infrastructure

Neighborhood Community Center
(4) Desktops

Bridge Shelter
(6) Desktops
(5) Laptops

Library
(1) Desktop

Communications/911
(30) Desktops

South Coast Plaza Substation
(4) Desktops

Downtown Recreation Center
(6) Desktops

Parks Building
(10) Desktops

Westside Substation
(11) PD Desktops
(7) CH Desktops
(11) CH Laptops

City Hall
(238) Desktops
(38) Laptops
(9) CH VM Hosts
(5) PD VM Hosts
(70) CH VM Servers
(33) PD VM Servers
(5) CH Physical Servers
(6) PD Physical Servers
(1) CH Backup Solution
(1) PD Backup Solution
(5) CH SAN's
(8) PD SAN's

Balearic Community Center
(8) Desktops

Senior Center
(21) Desktops
(3) Laptops

(6) Fire Stations
(24) Desktops

Police Department: EOC & Fuel Station
(152) Desktops
(49) Laptops (EOC)
(1) Laptop (Other)

Corporation Yard
(18) Desktops
(1) Laptop

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Computer Network Operations: Service Management

Network Administrators manage and monitor the following:

- Mobile Device Management – Over 200 City mobile devices.

- Inventory Management – Over 3,000 devices in use.

- Security Camera Systems.

- Network Monitoring.

- Server Performance.

- Desktop support.

- Printers & Multi-function Copiers.

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Computer Network Operations: Cybersecurity

Costa Mesa:

- 7,744 emails received/day (Barracuda)

- 1,063 emails blocked/day (Barracuda)

- 20,000 connections blocked/day (Threatstop)

United States: 2.3 Billion attacks in the last day

Computer Network Operations: Cybersecurity

- Ensure layers of security are operational

  - Web filtering, Intrusion Protection & Remediation, Antivirus, Spam & Phishing Filtering, Next Gen Firewalls and Cybersecurity Training.

  - Costa Rica (November 2022): Ransomware held the government hostage for weeks, causing a state of emergency, but did not pay ransom.

  - Shields Health Care Group of Massachusetts (April 2023): 2.3 Million personal data records stolen and system access for over two weeks before detection.

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Computer Network Operations: Cybersecurity

- Search for a dedicated Cybersecurity Analyst.

- Monitor threat activity: Incident Response, Intrusion Detection and Remediation, Breach Planning and Threat Mitigation.

- Deploy best practice of multiple layers of security, employee education, monitoring of firewalls and Internet traffic Meta Data Monitoring.

- Monthly DOJ Port Scan and Vulnerability Testing.

- Maintain regulatory requirements (PCI DSS, HIPAA, DOJ/FBI CJIS, etc.).

Computer Network : Accomplishments

- Created a fault tollerant remote network environment.

- Implemented Web content Security.

- Implemented Web Security Training.

- Conducted Telephone System assessment to convert to Voice over Internet Protocol (VoIP).

- Upgraded Operating System to Windows 11 and deployed Office 2019.

- Upgraded OneSolution CAD Client for the Police and Fire Departments.

- M365 & Teams Pilot Group Project.

- Fiber Optics Audit for City Hall Campus.

- Completed IT Physical Inventory for the Enterprise

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Computer Network : Accomplishments

- Completed a 3-year plan for desktop replacement.
- Installed network for body-worn cameras.
- Replaced aged WiFi equipment for City Hall and PD.
- Completed mobile data computer upgrade to PD and Fire vehicles.
- Completed server farm implementation for the new LMS system.
- Replaced SonicWall Firewalls for increased network security.
- Completed IT Physical Improvements for server rooms.
- Procured switches and routers that needed replacement to improve network connectivity for increased performance.
- City Hall, Fire Stations #1 – 6, and PD Verizon Extender Installation.
- City Hall Nimble Storage Upgrade and iSCSI Switch Replacement
  - Backup performance improved from 4 ½ hours to 45 minutes, 84% improvement.
- Security Camera Replacement for Downtown Recreation Center & City Hall

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Systems and Programming

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                    │   Supervisor    │
                    └────────┬────────┘
            ┌────────────────┴────────────────┐
  ┌─────────────────┐              ┌─────────────────┐
  │  Sr. Programmer │              │   Programmer    │
  │     4 FTE       │              │   Analyst II    │
  │                 │              │     4 FTE       │
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Systems and Programming: Business Systems

- Our Programmer Analysts handle and provide support for the following various systems for the City:

  - Public Safety Applications
    - Computer Aided Dispatch (CAD)
    - Record Management Systems (RMS) support
    - Parking Enforcement
    - Pet Licensing
    - Property and Evidence Tracking Auditing Software

  - Geographic Information Systems (GIS) – Analysis and reporting development.

  - Public Works Applications
    - Completed upgrade to AssetWorks to version 22.1.0.1
    - Fueling Application
    - Storehouse Inventory Software

  - Intranet development and support

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Systems Programming: Accomplishments

- Upgraded the following systems and application:

  - Upgrade to SQL Server 2019.

  - Laserfiche Enterprise document imaging system.

  - City Intranet with newer design which is more user-friendly and more intuitive.
    - New PD Intranet

  - Manual phone directory to a dynamic web application.

  - WaitWhile App was restructured to provide a more user-friendly appointment setting interface for the public.

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Systems Programming: Accomplishments

- Creation and new implementation of the following applications systems:

  - Land Management System (LMS)
    - Database conversion
    - Report generation
  - Peoplesoft HR/Payroll Support – MOU implementation, troubleshooting, tax updates, Open Enrollment, and user requests;
  - New Crystal reports for CAD/RMS and PeopleSoft;
  - Additional workflow forms in SeamlessDocs;
  - New features in Homeless Web Application;
  - New GIS enterprise environment, and created additional online map applications.

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Systems Programming: Accomplishments
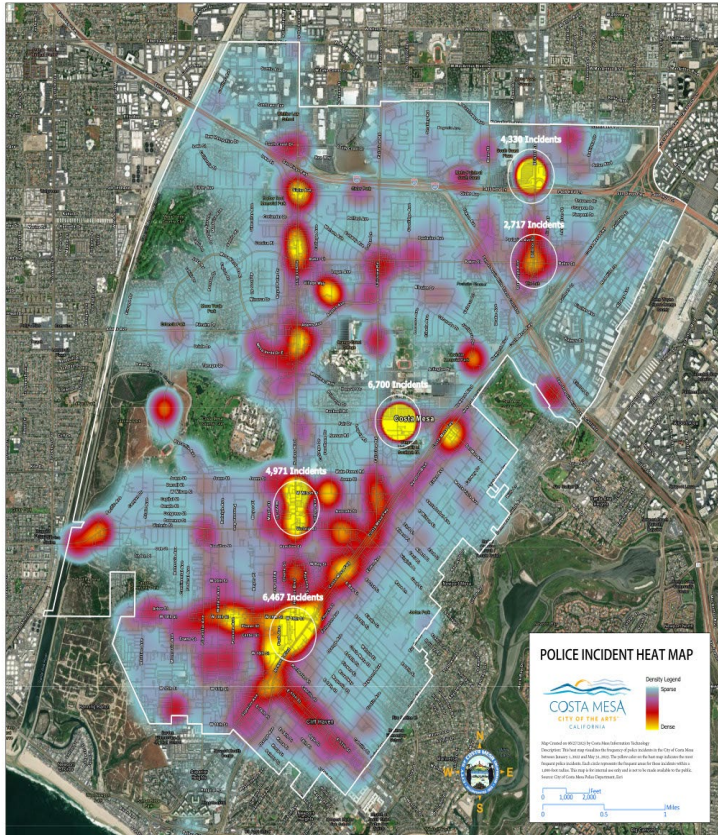
Police Incident Heat Map

Fire Phone App with Unit Addresses
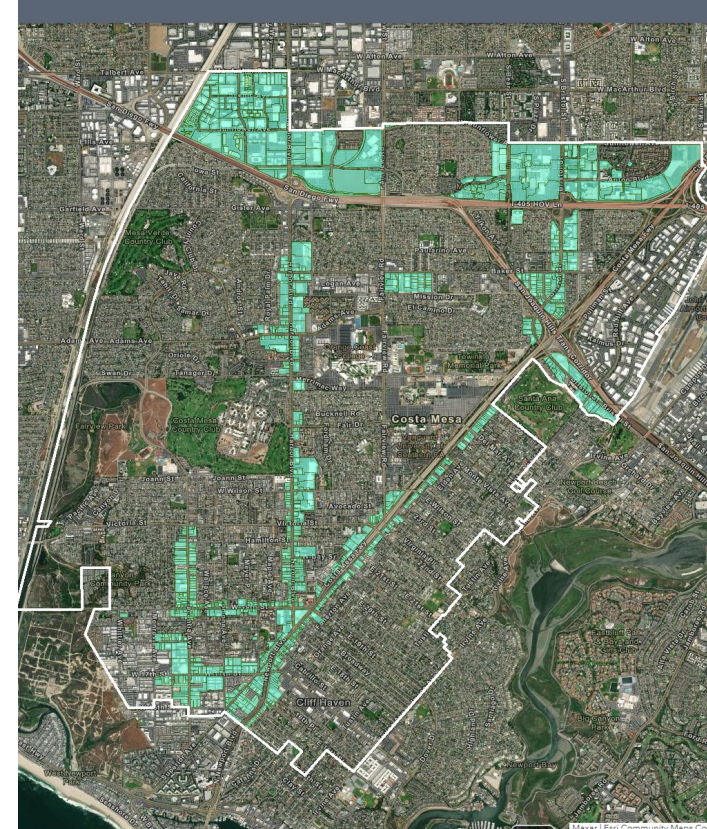
Measure K Map

Information Technology Strategic Plan (ITSP)

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Overview

- In 2020, a 5-year ITSP Initiatives and Roadmap was presented and approved by City Council to highlight objectives, projects, and goals for improving the business processes of City Departments.

- Thirty-eight (38) Initiatives were introduced to enhance the organization and service delivery environment. The IT Department prioritized the Initiatives based on available resources and needs.

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Initiatives: Year One Accomplishments

- Installed Police Mobile Data Computers
- Began Desktop Replacement Program (Phase 1 of 3)
- Began Land Management System (LMS) Implementation
- Agenda Management Application (Legistar)
- Police In-car Video
- Implemented AssetWorks: Fleet Management Module
- Hired a GIS Programmer Analyst II

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Initiatives: Year Two and Three Accomplishments

- Desktop Replacement Program (Phase 2 of 3)
- IT Physical/Security Improvement (Server Room)
- Fire: Mobile Data Computers
- Continuation of LMS implementation
- Hired an IT Manager and two Network Administrators

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Initiatives: Year Four Accomplishments

- Began RFP process for a replacement ERP System
- Completed Desktop Replacement Program (Phase 3 of 3)
- Print Management Services
- We are piloting Office 365 in IT
- Completed LMS Implementation
- Initiated Disaster Recovery Planning (consulting)
- Began saving for CAD/RMS Project Funding (Year 1 of 2)
- Hired two Sr. Programmer Analysts and one Programmer Analyst II

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Initiatives: Year Five

- Initiate CAD/RMS Project Funding (Year 2 of 2)
- Desktop Replacement – Year 1
  - Single Device Model
- Implement Fire Prevention Mobile Module
- Initiate VoIP RFP
- Enhanced Laserfiche Strategy (Digitizing Documents)

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Initiatives for the next 5 years:

- In 2024/25, begin planning stage for years 6 -10 of the ITSP.
- In FY 2025/2026, initiate a council-approved ITSP plan for the next five years.

Begin replacement and upgrades for:

- Replace the City's Core Switches.
- Initiate Single Device and Monitor Replacement.
- Set aside 1/10 savings for the next 5 years for Enterprise System Replacements:

•ERP	•Switches (Core & Network)
•Permitting -LMS	•Servers
•CAD/RMS	•Firewalls
•VoIP	•Cable and Plant
•Legistar	•Verkada Access Control
•Laserfiche Upgrades	•City Hall & PD UPS replacement

Challenges and Opportunities

Challenges and Opportunities

- Budget
- Office Space
- New Hires
- Update Department Administrative Regulations
- Automation & improve business processes
- Leverage the existing software suites through training
- Implementation of Email Management Policy

Questions?

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Background

- The Costa Mesa City Employees Association (CMCEA) MOU with the City contains a provision for CMCEA to request up to five compensation inequity studies and classification studies to be conducted by Human Resources each year.

- This MOU provision allows for identified positions to be analyzed by Human Resources to identify whether there is a discrepancy in that position's total compensation relative to the market.

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Background

- The market analysis includes an analysis of the average total compensation of comparable classifications in the five cities that border the City of Costa Mesa which include Fountain Valley, Huntington Beach, Irvine, Santa Ana and Newport Beach.

- The total compensation for each classification includes: the classifications' base salary, PERS retirement benefit formulas, employee retirement contributions, and City contribution(s) to medical and dental plans or cafeteria plans.

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Background

- Human Resources also makes recommendations to the City Manager regarding positions that may require compensation adjustments based on City departments and labor associations along with recruitment and retention trends.

- Due to significant difficulties in recruiting for various Analyst classifications, the Human Resources Division is recommending adjustments to the Management Analyst and other specialized Analyst classifications.

- The Police Department also requested a compensation update and title change to the part-time Police Aide classification and a title change to the Animal Services Supervisor classification.

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Analysis – CMCEA Classifications

- For 2023, CMCEA requested the review of the following classifications:

  - Code Enforcement Officer
  - Construction Inspector
  - Police Records Technician
  - Maintenance Worker
  - Fairview Park Administrator

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Analysis – CMCEA Classifications

- The total compensation analysis revealed the following:

  - Code Enforcement Officer: -12.63% below market

  - Police Records Technician: -12.24% below market

  - Maintenance Worker: -8.44% below market

  - Construction Inspector: -12.29% below market

  - Fairview Park Administrator: minimal comparisons in the current survey market.   Recommendations will be based on internal alignment with Associate Engineer as past practice.

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Analysis – CMCEA Classifications

- The following recommended adjustments are based on a combination of the market survey results along with internal alignment.

Classification	% Below Market	Proposed Adjustment	# of Positions	Annual Impact
Code Enforcement Officer II (new classification) (Includes Sr. Code Enforcement Officer, Chief of Code Enforcement, Community Improvement Manager)	-12.63%	12.63% 11.34% (Com Imprv Mgr)	11	$146,951
Police Records Technician (Includes Sr. Police Records Tech, Police Records Shift Supv)	-12.24%	12.24%	19	$180,941
Maintenance Worker (Includes Maint Asst, Sr. Maint Worker, Facilities Maint Tech, Lead Maint Worker, Lead Facilities Maint Tech, Sr Lead Maint Worker)	-8.44%	8.44%	22	$167,698
Construction Inspector	-12.29%	12.29%	3	$39,794
Fairview Park Administrator	N/A	5.96%	1	$8,951

Analysis – Management Analyst and Police Aide

- The total compensation analysis revealed the following:

  - Management Analyst: -8.07% below market

  - Senior Management Analyst: -15.95% below market

  - Police Aide: -24.60% below market

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Analysis – Management Analyst / Police Aide

- The following recommended adjustments are based on a combination of the market survey results along with internal alignment.

Classification	% Below Market	Proposed Adjustment	# of Positions	Annual Impact
Management Analyst / Management Analyst (Conf) (Includes Management Aide)	-8.07%	8%	5	$38,245
Sr Management Analyst / Sr Management Analyst (Conf)	-15.95%	15%	11	$206,344
Budget Analyst, Sr Budget Analyst, Financial Analyst, Crime Analyst	Based on internal alignment	12%	6	$92,342
HR Technician, HR Analyst, Principal HR Analyst, HR Administrator	Based on internal alignment	8% (Tech) 5% (Analyst) 12.18% (Princ/Admin)	9	$100,209
Police Aide (Part Time)	-24.60%	29% (to Step 1)	10	$47,479

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Recommendations

- The salary ranges for designated classifications are recommended for adjustment

- The Fiscal Year 2023-24 pro-rated increase is estimated at $792,729 for the full-time classifications and $38,348 for the part-time classifications.

- The total annual fiscal impact of these adjustments in future budgets is $981,475 for the full-time classifications and $47,479 for the part-time classifications.

- This item supports the City Council's goal to Recruit and Retain High Quality Staff

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QUESTIONS?

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Cal OES - Southern Region Emergency Operations Center (EOC) Project

- California Office of Emergency Services (Cal OES) provides disaster planning, readiness, and state resources for various emergencies facing California.

- Cal OES operates the State's Emergency Operations Centers in the City of Mather in Northern California and a temporary site in the City of Los Alamitos.

- The State is proposing to replace its temporary facility with a permanent State EOC serving the Southern California region on a 15-acre portion of the State's Fairview Developmental Center property in Costa Mesa.

State EOC Project – Proposed Location

The State's Southern Region EOC is proposed on 15 acres of the Fairview Developmental Center (FDC) Site

The remaining FDC acreage (approximately 100 acres) would be planned for a residential community by the City as a separate effort.

Public visioning meetings for master planning the remainder of the site will begin this fall.

FIGURE 3-1
Project Location
Southern Region Emergency Operations Center

SOURCE: IDS Group 2022

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State EOC Project - Proposed Components

A. Helicopter Pad* for medium-size helicopters; limited to two landings annually or as needed during emergency response operations

B. 20,000-square-foot warehouse

C. 120' tall communications tower

D. A single-story office building, up to 35,000 square feet

Other: landscaping and fencing, microgrid, parking lots, utilities, and roadway improvements.
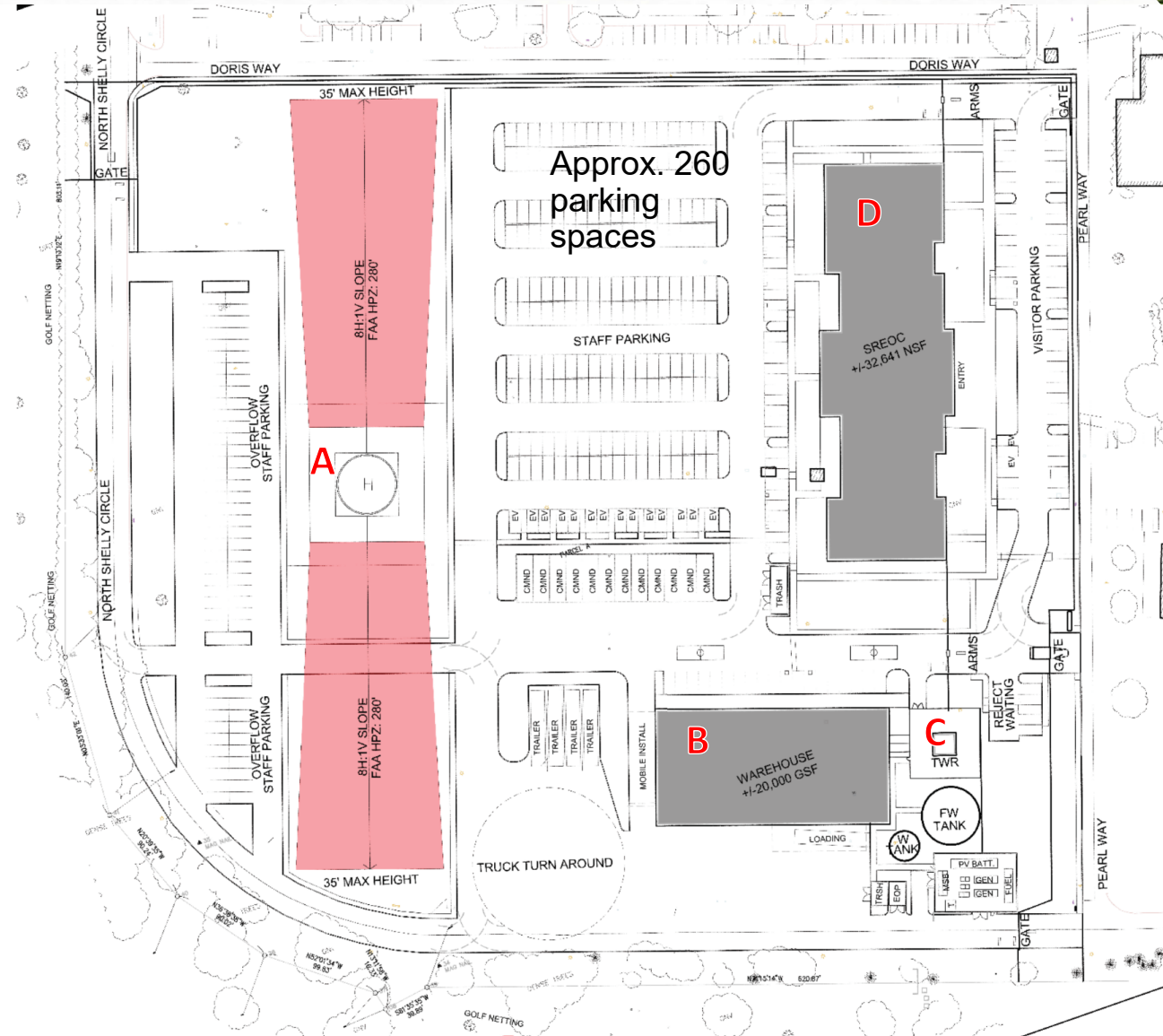
* In recent meetings, the State has indicated that the helipad will not be included in the final project.

4

State's Floor Plan Exhibits

Office Building
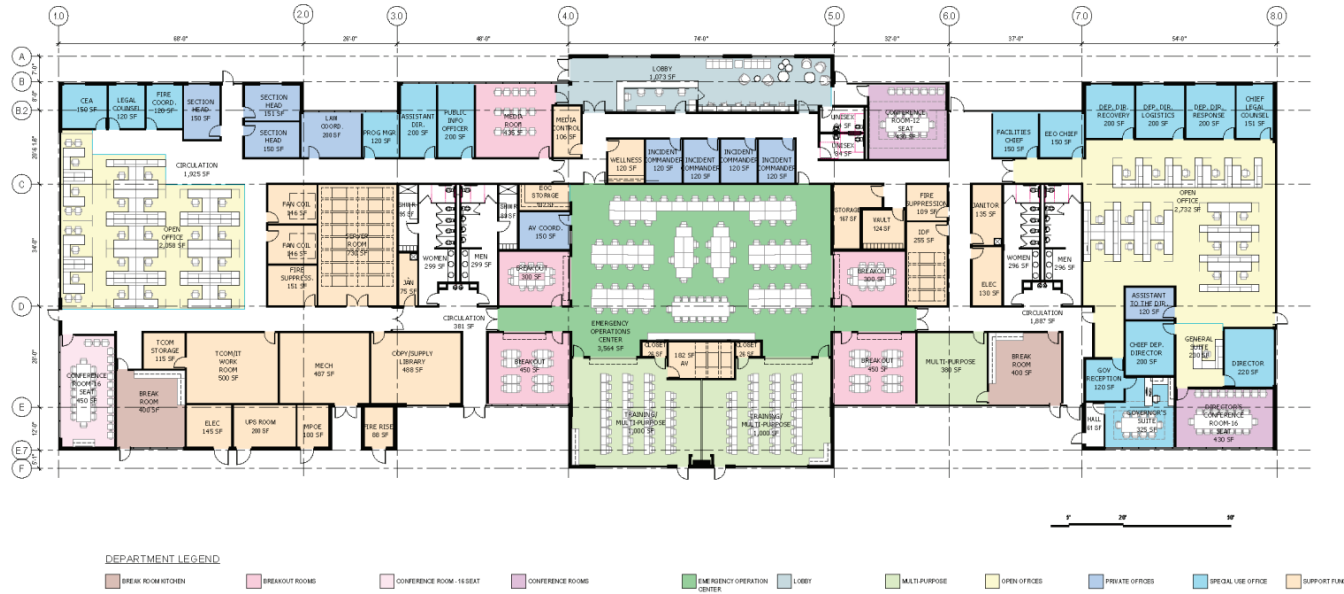
Warehouse
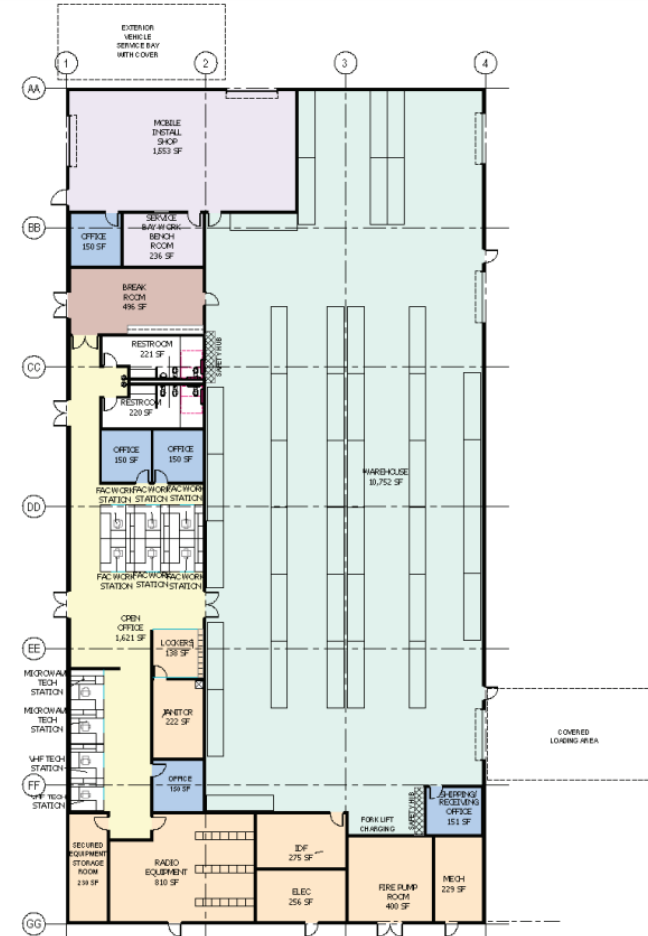
State EOC Project - Helipad

* Although evaluated in the Draft EIR, in recent meetings, the State has indicated that the helipad will not be included in the State's final project.

Helicopter Pad

35' Height Limit At End of HPZ

35' Height Limit At End of HPZ

HPZ

HPZ

SRECC

WAREHOUSE

Survey Boundary

Helicopter Protection Zone: Clear Area Under the 8:1 Approach/Departure Surface

8:1 Approach/Departure Surface

2:1 Transitional Surface Clearance

North-South Flight Path

Costa Mesa
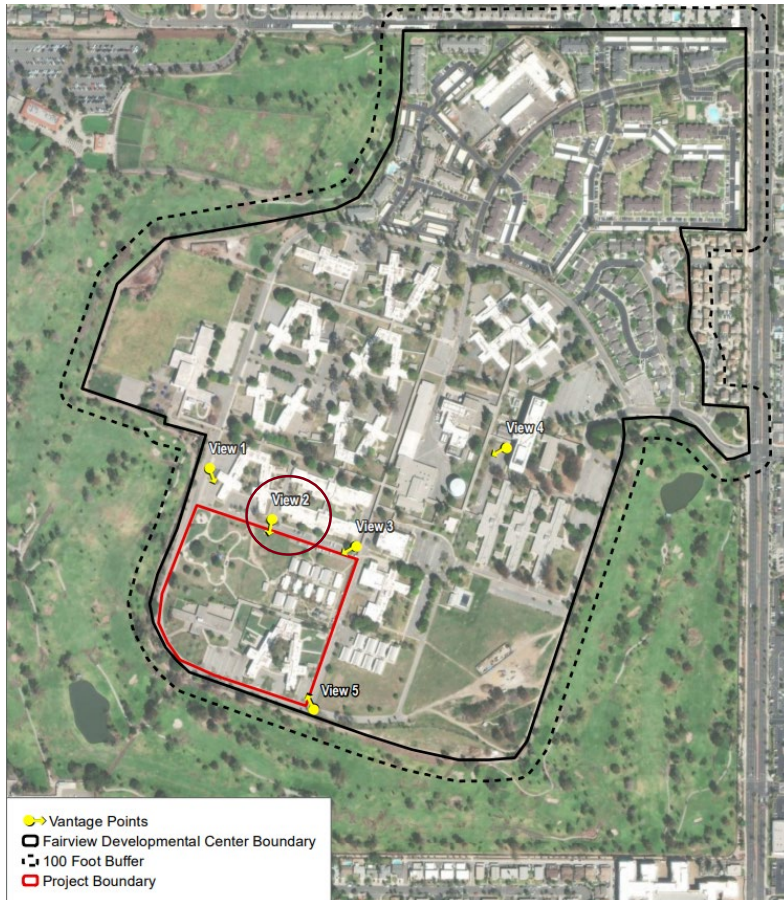
State EOC Project – Communications Tower

Visual Simulation from Vantage Point 1

Visual Simulation of Project

State EOC Project – Communications Tower

Visual Simulation from Vantage Point 2

State EOC Project – Communications Tower

Visual Simulation from Vantage Point 3

State EOC Project – Communications Tower

Visual Simulation from Vantage Point 4

State EOC Project – Communications Tower

Visual Simulation from Vantage Point 5

State EOC Project – Streets

Conceptual Roadway Improvements

MERRIMAC WAY AND HARBOR BOULEVARD INTERSECTION
- INCREASE NORTHWEST CURB RETURN TO 50' RADIUS
- RELOCATE STREET LIGHT POLE
- RELOCATE TRAFFIC LIGHT POLE
- REPLACE CURB RAMP
- REPLACE CROSSWALK STRIPING
- IMPROVEMENTS INCLUDE WORK IN THE PUBLIC RIGHT-OF-WAY

MERRIMAC WAY AND SHELLEY CIRCLE INTERSECTION
- INCREASE WEST CURB RETURN TO 50' RADIUS
- RELOCATE STORM DRAIN CATCH BASIN
- ADJUST SEWER MANHOLE
- IMPROVEMENTS MAY ENCROACH BEYOND FDC PROPERTY / LOT LINE

- INCREASE EAST CURB RETURN TO 50' RADIUS
- RELOCATE STREET LIGHT
- IMPROVEMENTS ENCROACH BEYOND PROPERTY / LOT LINE
- REPLACE (2) - CURB RAMPS
- REPLACE CROSSWALK STRIPING

FAIR DRIVE AND SHELLEY CIRCLE INTERSECTION
- INCREASE EAST CURB RETURN TO 50' RADIUS
- RELOCATE STREET LIGHT
- IMPROVEMENTS MAY ENCROACH BEYOND PROPERTY / LOT LINE

- INCREASE SOUTH CURB RETURN TO 50' RADIUS
- REALIGN ROADWAY
- IMPROVEMENTS ENCROACH BEYOND PROPERTY / LOT LINE
- REPLACE (2) - CURB RAMPS
- REPLACE CROSSWALK STRIPING

FAIR DRIVE
- FULL SECTION REPLACEMENT AC ROADWAY - 720 LF / 24,390 SF
- ACCESSIBLE WALKWAY

SHELLEY CIRCLE
- FULL SECTION REPLACEMENT AC ROADWAY - 923 LF / 28,041 SF
- ACCESSIBLE WALKWAY

SHELLEY CIRCLE
- NEW ROADWAY CONSTRUCTION - 2,882 LF / 86,487 SF
- ACCESSIBLE WALKWAY

LEGEND:
- NEW ASPHALT - FULL DEPTH AC AND BASE
- NEW ASPHALT - INCL. CURB AND GUTTER
- INTERSECTION IMPROVEMENTS
- ACCESSIBLE WALKWAY TO PUBLIC RIGHT-OF-WAY
- CURB
- STREET CENTERLINE
- PROJECT SITE

State EOC Project – Utilities

Conceptual Utility Improvements

State's Environmental Impact Report (EIR)

The proposed project is subject to the California Environmental Quality Act (CEQA). The CEQA process is intended to:

1) Inform decision-makers and the public about the potential environmental effects of the proposed project;

2) Identify the ways that environmental impacts can be avoided or significantly reduced;

3) Prevent significant, avoidable environmental impacts by requiring changes in projects, either by the adoption of alternatives or imposition of mitigation measures; and,

4) Disclose to the public why a project was approved if that project has significant environmental impacts that cannot be mitigated to a less than significant level.

State's Environmental Impact Report

- Cal OES is the lead agency responsible for the preparation of the Environmental Impact Report (EIR).

- A Notice of Preparation (NOP) of an EIR and public scoping meeting was issued on March 1, 2023.

- Two one-hour Scoping Sessions to discuss the scope and content of the forthcoming EIR were conducted March 13, 2023.

- The NOP public comment period closed on April 17, 2023.
    - City submitted a comment letter requesting specific issues and concerns be addressed in the State's EIR

City comment letter on the State's EIR

- City comment letter dated April 17, 2023 highlighted the following requests:

  - Comprehensive project description

  - Ongoing land use planning coordination for the remainder of FDC site

  - Clear project objectives which included facilitating housing on the remainder of the FDC site

  - Evaluating a reasonable range of alternatives including offsite and other onsite locations for the facility;

  - Visual compatibility of the proposed communications tower with existing and future adjacent residential uses

  - Noise, hazards, and safety

  - Transportation/traffic including a request to study specific intersections and incorporating active transportation systems;

  - Impacts to public services and recreation (the onsite soccer fields and adjacent community golf course), utilities, and cumulative impacts.

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Draft EIR released by the State

- The State's Draft EIR was released on September 5, 2023.

- The EIR has a 45-day public review period and all comments are due by October 20, 2023 by 6 p.m.

- The EIR is available online at: https://oesregionsoutheoc.org/library/

- The public is encouraged to participate in the environmental review process; a public meeting will be hosted by the State on September 28, 2023 at the Fairview Developmental Center's Auditorium at 6 p.m.

Legend

⬤ Public Meeting Location - Auditorium
(2501 Harbor Blvd, Costa Mesa, CA 92626)

- - - Route

🅿 Parking Lot

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State's EIR Summary

No impacts or less than significant

- Aesthetics
- Agriculture and
- Energy
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation
- Utilities
- Wildfire

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State's EIR Summary

Less than Significant with Mitigation

- Air Quality
- Biological Resources
- Cultural Resources
- Tribal Cultural Resources
- Hazards and Hazardous Materials
- Paleontological Resources

Staff is currently reviewing the DEIR and will prepare a comment letter.

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How can the public participate?

1) Review the State's EIR
   - Available online at: https://oesregionsoutheoc.org/library/

2) Attend the State's Meeting
   - September 28, 2023 @ 6 p.m. at the Fairview Developmental Center's Auditorium

3) Communicate your concerns

   - Written comments are due by October 20, 2023 by 6 p.m.

   - Email:comments@oesregionsoutheoc.org

   - By Mail: Terry Ash, Senior Environmental Planner, DGS – Real Estate Division, c/o Dudek, 2635 North First Street, Ste. 149, San Jose, California 95134.

Legend
- Public Meeting Location - Auditorium (2501 Harbor Blvd, Costa Mesa, CA 92626)
- Route
- Parking Lot

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State's Southern Region Emergency Operations Center Project at the Fairview Developmental Center

September 19, 2023

Why we need to *accelerate* our safe streets efforts

4 Reasons

Reason **#1** we need to accelerate safe streets efforts

Kids lack the *perceptual judgement* an *motor skills* to consistently cross streets safely.

University of Iowa 2017 study:

- *Children ages 6 to 14, along with a control group of adults*
- *Conducted in 3D environment designed to mimic a single lane of typical residential traffic*
- *Each person was tasked with safely crossing a nine-foot single lane 20 times*
- *Virtual vehicles travelled at 25 mph with gaps between vehicles varying from 2-5 seconds*

Reason #1 we need to accelerate safe streets efforts

Kids lack the *perceptual judgement* an *motor skills* to consistently cross streets safely.

University of Iowa 2017 study results:

- 14-year-olds were *struck* 0% of the time
- 12-year-olds were *struck* 2% of the time
- 10-year-olds were *struck* 5% of the time
- 8-year-olds were *struck* 6% of the time
- 6-year-olds were *struck* 8% of the time

Conclusion: kids *do not have the cognitive ability* to consistently cross streets safely.

Reason **#1** we need to accelerate safe streets efforts

Kids lack the *perceptual judgement* an *motor skills* to consistently cross streets safely.

Reduced Sensitivity t
by Speeding Vehicles

John P. Wann ✉, Damian R. Po

Volume 22, Issue 4 | https:/

Abstract

Almost all locomotor animals respond to visual looming or to discrete changes in optical size. The need to detect and process looming remains critically important for humans in everyday life. Road traffic statistics confirm that children up to 15 years old are overrepresented in pedestrian casualties. We demonstrate that, for a given pedestrian crossing time, vehicles traveling faster loom less than slower vehicles, which creates a dangerous illusion in which faster vehicles may be perceived as not approaching. Our results from perceptual tests of looming thresholds show strong developmental trends in sensitivity, such that children may not be able to detect vehicles approaching at speeds in excess of 20 mph. This creates a risk of injudicious road crossing in urban settings when traffic speeds are higher than 20 mph. The risk is exacerbated because vehicles moving faster than this speed are more likely to result in pedestrian fatalities.

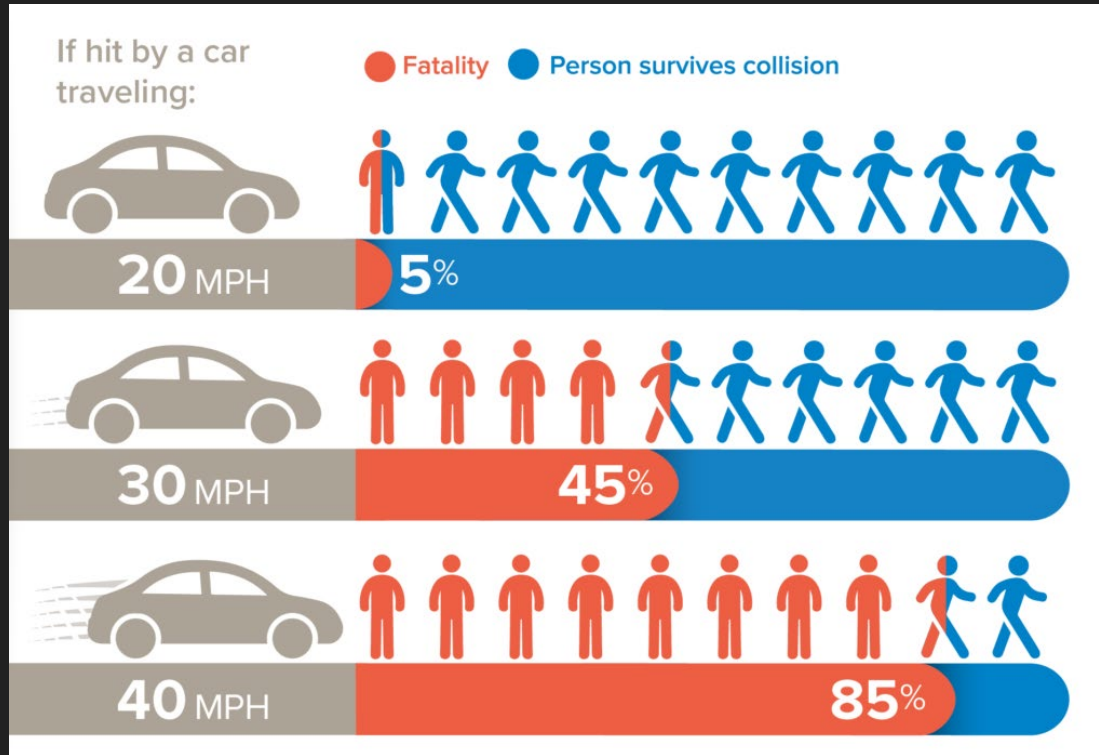# Reason **#2** we need to accelerate safe streets efforts

The probability that a driver will stop for a crossing pedestrian plummets as car speeds rise.

Reason #2 we need to accelerate safe streets efforts

Kittelson & Associates experiment findings:
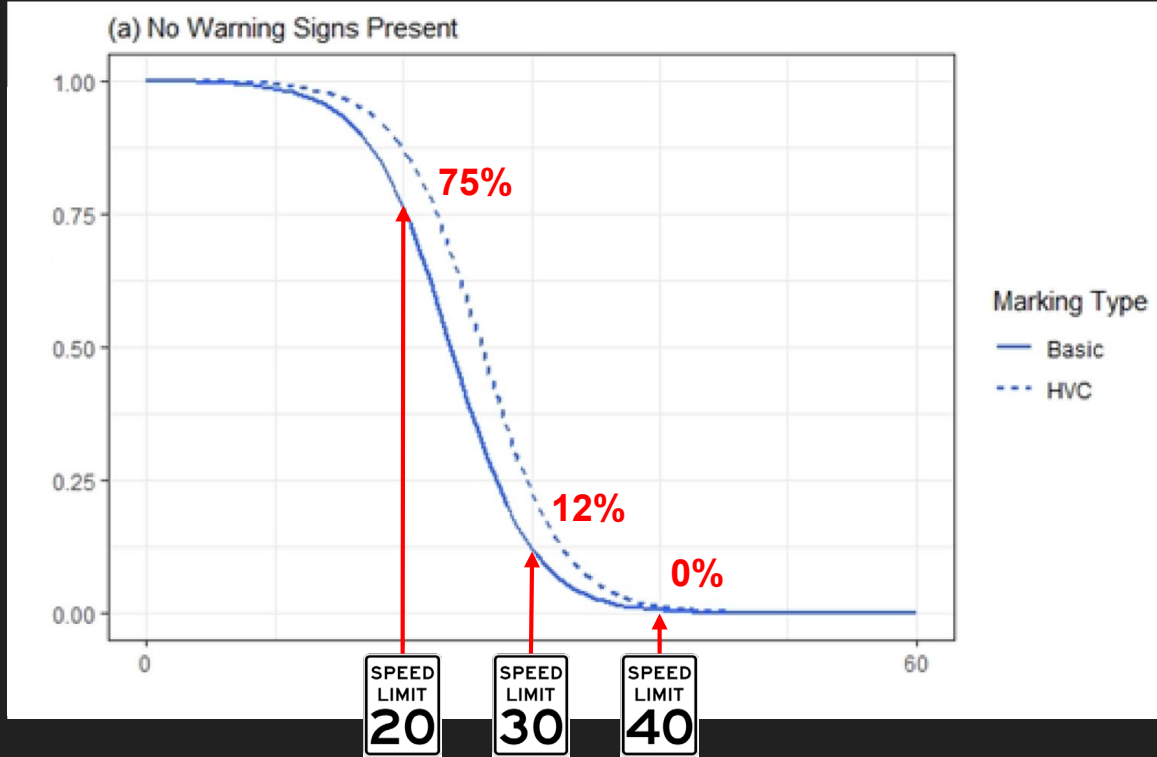
# Reason **#3** we need to accelerate safe streets efforts

If hit by a car traveling:

● Fatality ● Person survives collision

20 MPH — **5%**

30 MPH — **45%**

40 MPH — **85%**

Source: National Traffic Safety Board (2017) Reducing Speeding-Related Crashes Involving Passenger Vehicles

Reason **#4** we need to accelerate safe streets efforts

A portion of drivers will always be irresponsible, reckless, dangerous

- People drink
- People age
- People take medications
- People work long hours and commute
- People make mistakes
- People cave to peer pressure
- People get too comfortable
- People get angry
- People run late
- People get impatient
- People get distracted
- People feel entitled
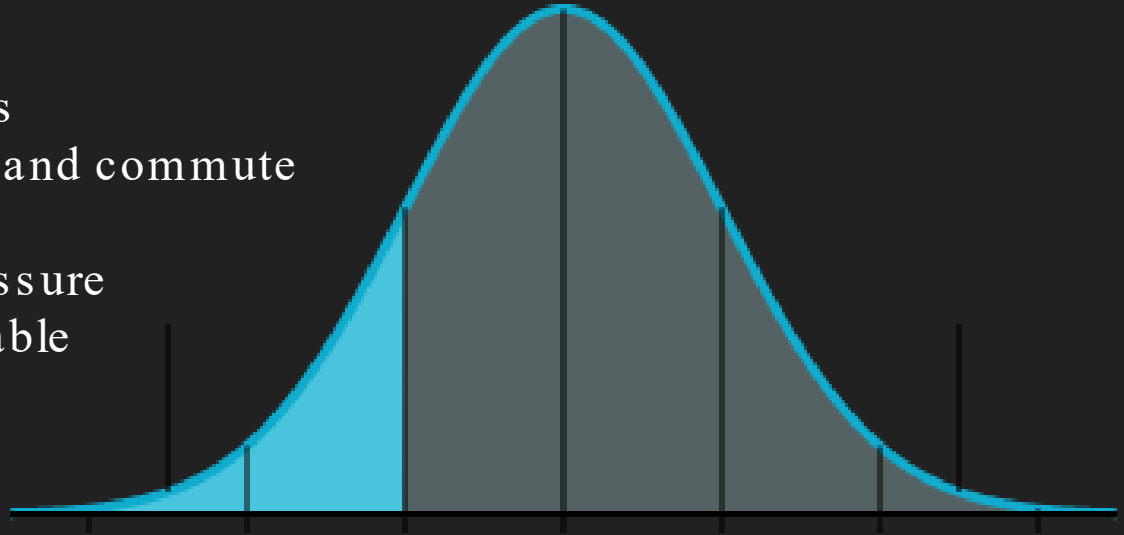
Given these _facts_, what ought our policies and standards be on the design of our public space? Are we doing enough?
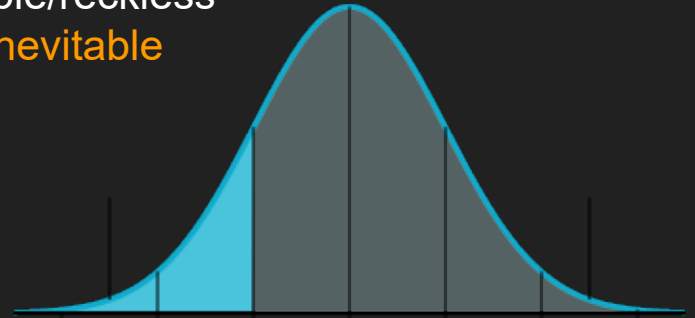
Kids cannot adapt to speed

Drivers won't yield
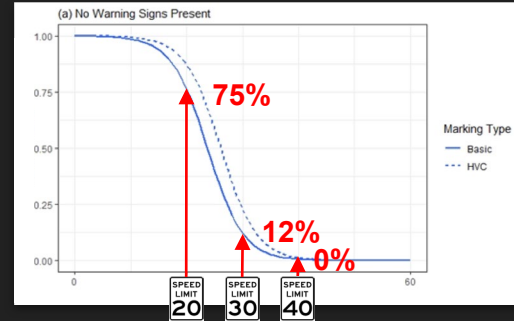
Speed kills
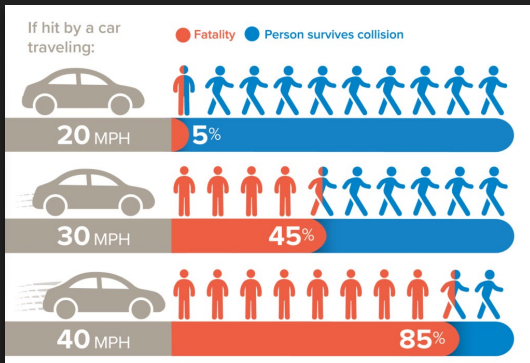
Irresponsible/reckless driving is inevitable

HSS Storage Bin next to vernal pool

HSS Bin two weeks later – has gas mower and other gas powered items

Fairview Park before assault

HSS has total disregard for Fairview Park's nature and Costa Mesa city council has authorized the destruction of Fairview Park's sensitive habitat by ignoring USFW, CDFW, City Staff, City Committee, FPMP, and the community!

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This Juvenile White-tailed Kite has been trying to hunt but has been kicked out by glider planes. He waited on Saturday in a near by tree for the planes to leave. It's not fair to him or the community.

State of California Proposed Emergency Operations Center

Cynthia McDonald

September 19, 2023

Visual Simulation of Project

State's depiction of 120 ft Orange and White Tower

FIGURE 4.1-10

Vantage Point 5
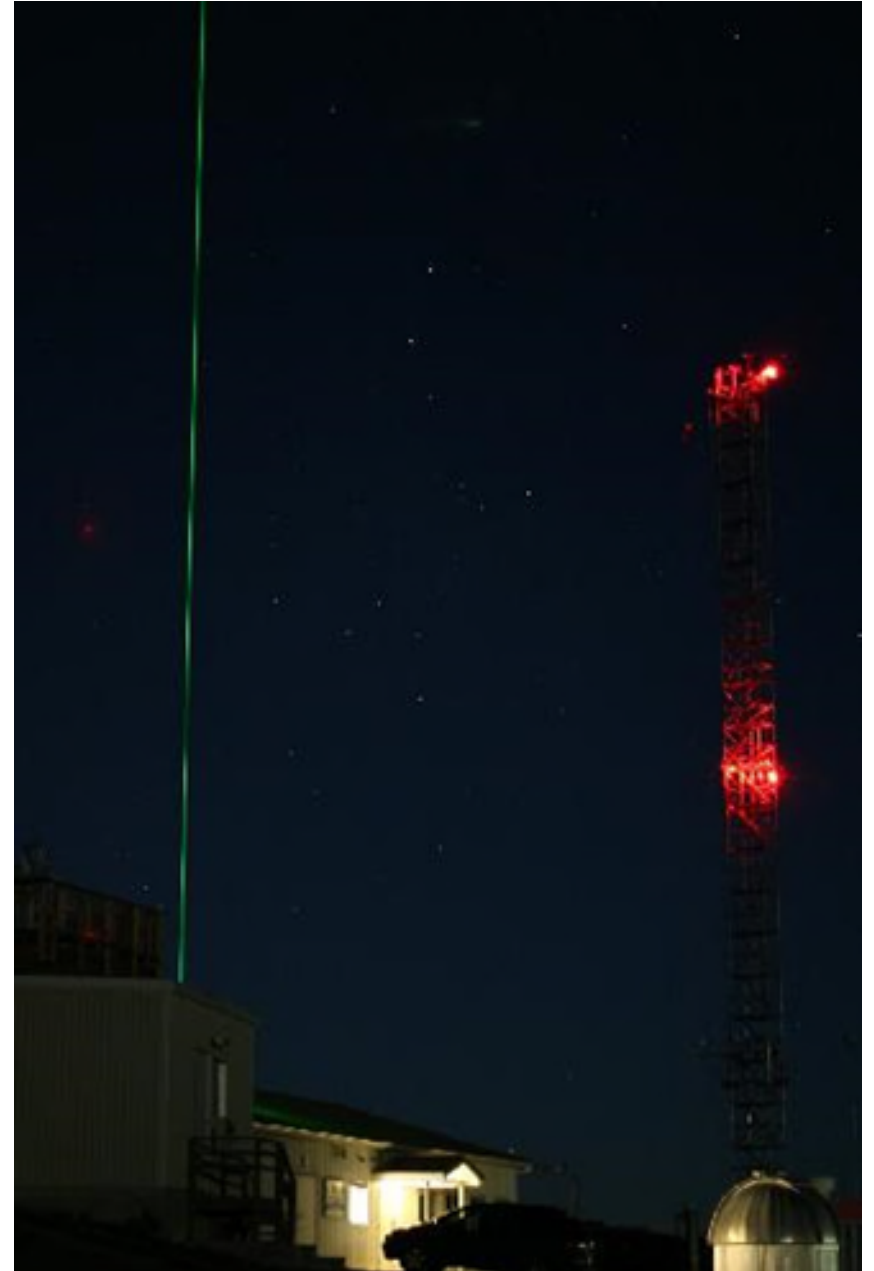
Southern Region Emergency Operations Center

DUDEK

What the tower will look like

For a sense of scale, this depiction of a 10- story building shows how the tower would fit into the neighborhood

120 ft. Max.

Scottsdale Rd.

120 ft communications tower at Mauna Loa Observatory day and night

Other Issues

- Use of this site as an EOC is not compatible with existing and future residences nearby
  - Not an industrial area typical of warehouses and offices
  - Helicopter take off and landings would impact neighbors
- Creates havoc with implementation of Costa Mesa Housing Element
  - Removes the option of housing on a prime parcel overlooking the golf course
  - New roadway bisects parcel that is not part of EOC
  - Roadway and utility improvements will impact areas outside of FDC (Merrimac and Fair Dr)

- Biological resources would be impacted
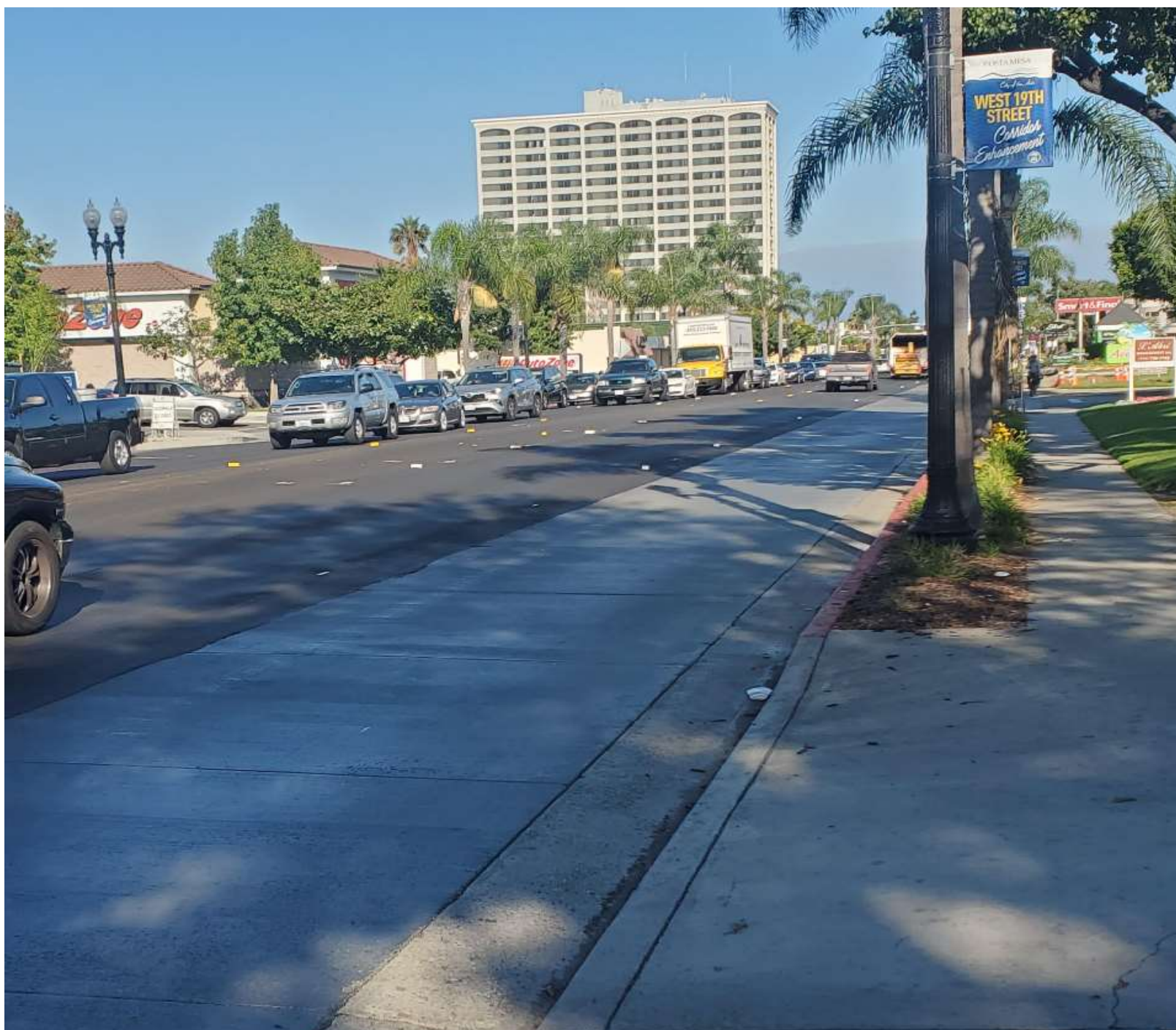
California's Newsom says coronavirus provides 'opportunity' to push progressive agenda

By Michael Ruiz · **Fox News**

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