



GSX
GLOBAL SECURITY EXCHANGE

POWERED BY **ASIS**
INTERNATIONAL

23-27 SEPTEMBER 2018

LAS VEGAS CONVENTION CENTER | LAS VEGAS, NV

Conducting a CPTED Site Survey

CPTED SURVEY

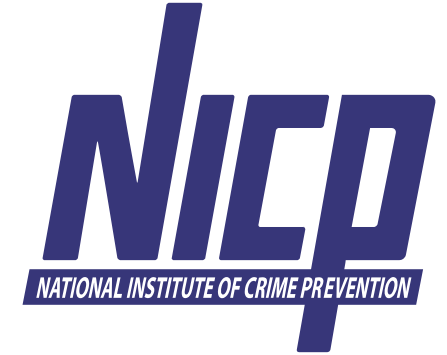
Presenter Biography



Art Hushen

President

National Institute of Crime Prevention, Inc.



- ▶ Founded the National Institute of Crime Prevention / NICP Inc. in 1999
- ▶ 30 year retired Law Enforcement Officer / Specialty CPTED & Crime Prevention
- ▶ BA Criminology University of South Florida
- ▶ Designed and manage the internationally recognized CPTED Professional Designation (CPD)
- ▶ Designed the State of Florida CPTED Professional Designation (FCP) for the Florida Attorney General's Office
- ▶ Chairman of the Florida Design Out Crime Association (FLDOCA)
- ▶ Past Member ASIS Physical Security Council
- ▶ Member ASIS Florida West Coast Chapter 30

Presenter Biography



Mark Schreiber, CPP, CPD

President & Principal Consultant

Safeguards Consulting, Inc.



- ▶ 20 Years in Security Industry
- ▶ B.S. Electrical Engineering Technology
- ▶ ASIS Certified Protection Professional
- ▶ NICP CPTED Professional Designation
- ▶ Security & Telecommunications SME
- ▶ ASIS Council Vice President
- ▶ ASIS Assistant Regional Vice President (4B)
- ▶ Past Chair of ASIS Critical Infrastructure Working Group & ASIS Security Architecture & Engineering Council, Chapter Chair
- ▶ Member of Multiple ASIS Councils

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Proper Context:

Formal Physical Security Risk Assessments

ASIS INTERNATIONAL

Risk Assessment

ANSI/ASIS/RIMS RA.1-2015



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Proper Context:

Physical Security Vulnerability Assessments

The poster features a large, stylized red and white graphic on the right side, resembling a teardrop or a curved arrow. The background is dark blue with a grid pattern. The text is white and green. The ASIS International logo is at the bottom right, with the tagline 'Advancing Security Worldwide'. The text 'EXPERIENCE, DEDICATION, AND LEADERSHIP IN SECURITY EDUCATION' is written along the bottom curve of the graphic.

**Risk, Threat, and
Vulnerability Assessment**

October 23–24, 2014
Las Vegas, NV

Earn
up to
14 CPEs

New
Program

EXPERIENCE, DEDICATION, AND LEADERSHIP IN SECURITY EDUCATION

ASIS
INTERNATIONAL
Advancing Security Worldwide®

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Proper Context:

Physical Security Site Surveys



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CPTED is defined as “*the proper design and effective use of the built environment that can lead to a reduction in the fear and incidence of crime and an improvement in the quality of life.*”



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Design defined under the CPTED model includes the *physical design*, *social management*, and law enforcement *directives* that seek to affect positively human behavior as people interact with their environment.



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Elements of a CPTED Site Survey

Primary CPTED Strategies

- Natural Surveillance
- Natural Access Control
- Territorial Reinforcement
- Maintenance

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Natural Surveillance - The placement of physical features, activities, and people in a way that maximizes visibility.



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Natural Access Control - People are physically guided through a space by the strategic design of streets, sidewalks, building entrances, and landscaping.



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Territorial Reinforcement - The use of physical attributes that express ownership such as fencing, pavement treatments, signage, and landscaping.



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Maintenance - Allows for the continued use of a space for its intended purpose. Serves as an additional expression of ownership. Prevents reduction of visibility from landscaping overgrowth and obstructed or inoperative lighting.



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Elements of a CPTED Site Survey

Supporting CPTED Elements

- Traffic Calming
- Landscaping
- Transition Zones
- Lighting
- Light Trespass / Light Pollution
- Celebrated Entryway
- Focal Points
- Wayfinding
- Pedestrian Scale
- Connectability
- Positive / Negative Activity Generators
- Social Management

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Elements of a CPTED Site Survey

CPTED Survey Components

- Introduction (including address and site photo)
- Disclaimer
- Confidentiality
- Aerial View
- Crime analysis
- Demographics
- Site Analysis

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Introduction with name and address of site

CPTED SITE SURVEY Bonneville Transit Center

101 E. BONNEVILLE AVE.
LAS VEGAS, NV 89101

Hours Of Operation 24 Hrs.
Bike Shop Hours 7:00 AM – 7:00 PM (Closed On Sundays)



Conducting a CPTED Site Survey

Disclaimer

THIS CPTED Site Survey HAS BEEN CONDUCTED AS A SERVICE OF THE CPTED Site Survey TEAM. THE INFORMATION CONTAINED HEREIN IS BASED ON GUIDELINES SET BY THE NATIONAL INSTITUTE OF CRIME PREVENTION AND THE OBSERVATIONS OF THE INDIVIDUAL PERSON CONDUCTING THE SURVEY. THIS SURVEY IS INTENDED TO ASSIST YOU IN IMPROVING THE OVERALL LEVEL OF SECURITY AND SAFETY ONLY. IT IS NOT INTENDED TO IMPLY THE EXISTING SECURITY MEASURES, OR PROPOSED SECURITY MEASURES ARE ABSOLUTE OR PERFECT.

ALL NEW CONSTRUCTION OR RETROFITS SHOULD COMPLY WITH EXISTING BUILDING CODES, ZONING LAWS AND FIRE CODES. PRIOR TO INSTALLATION OR MODIFICATIONS THE PROPER LICENCES AND VARIANCES SHOULD BE OBTAINED AND INSPECTIONS SHOULD BE CONDUCTED BY THE APPROPRIATE AGENCY.

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State Statute / Confidentially

NRS 239.0105 Confidentiality of certain records of local governmental entities.

1. Records of a local governmental entity are confidential and not public books or records within the meaning of NRS 239.010 if:

- (a) The records contain the name, address, telephone number or other identifying information of a natural person; and
- (b) The natural person whose name, address, telephone number or other identifying information is contained in the records provided such information to the local governmental entity for the purpose of:

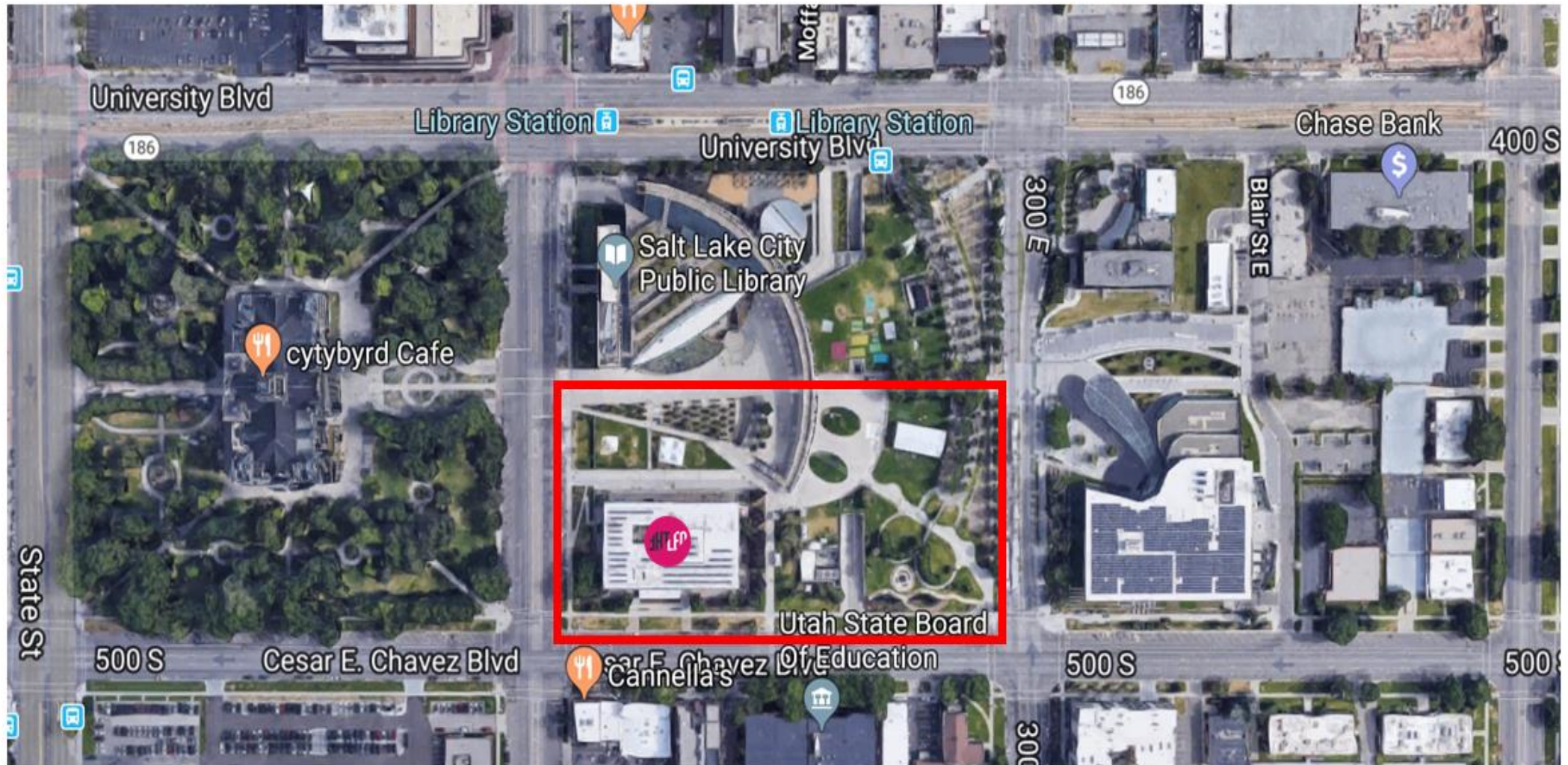
- (1) Registering with or applying to the local governmental entity for the use of any recreational facility or portion thereof that the local governmental entity offers for use through the acceptance of reservations; or
- (2) On his or her own behalf or on behalf of a minor child, registering or enrolling with or applying to the local governmental entity for participation in an instructional or recreational activity or event conducted, operated or sponsored by the local governmental entity.

2. The records described in subsection 1 must be disclosed by a local governmental entity only pursuant to:

- (a) A subpoena or court order, lawfully issued, requiring the disclosure of such records;
- (b) An affidavit of an attorney setting forth that the disclosure of such records is relevant to an investigation in anticipation of litigation;
- (c) A request by a reporter or editorial employee for the disclosure of such records, if the reporter or editorial employee is employed by or affiliated with a newspaper, press association or commercially operated, federally licensed radio or television station; or
- (d) The provisions of NRS 239.0115.

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Aerial View



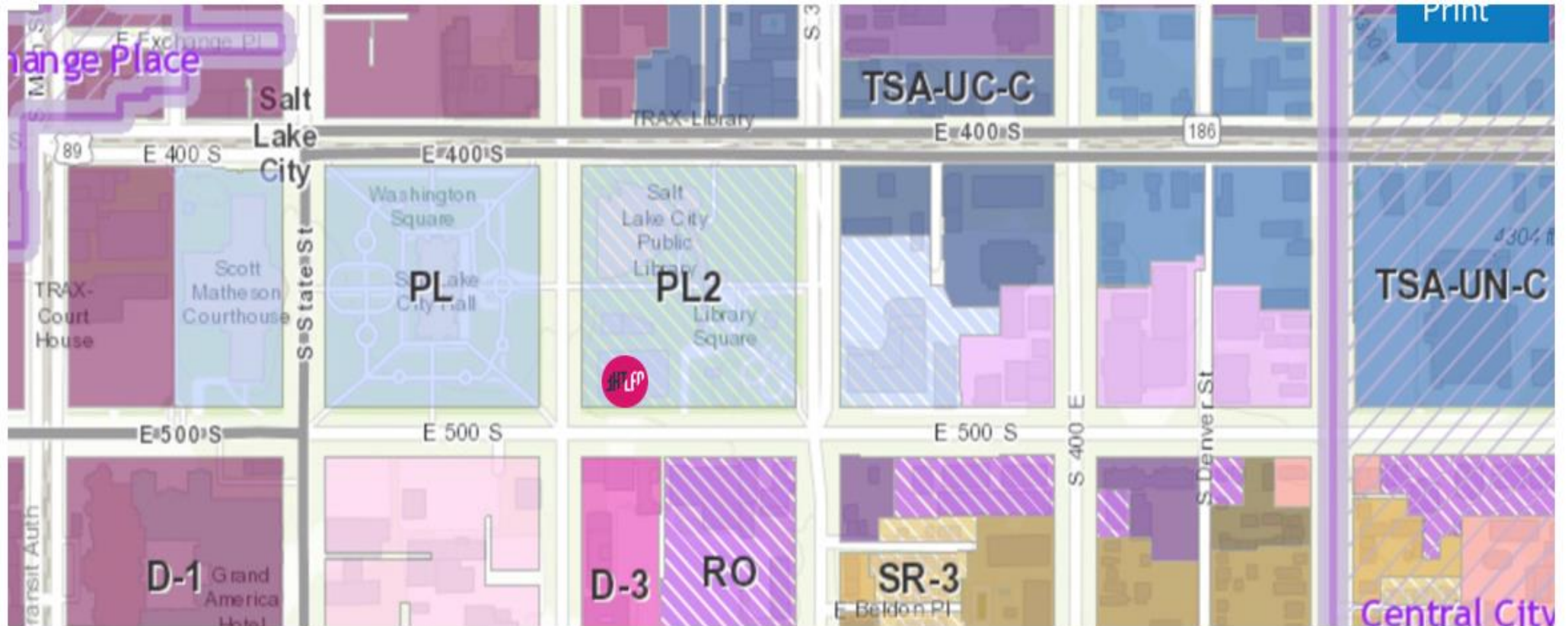
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Aerial View



Conducting a CPTED Site Survey

Aerial View



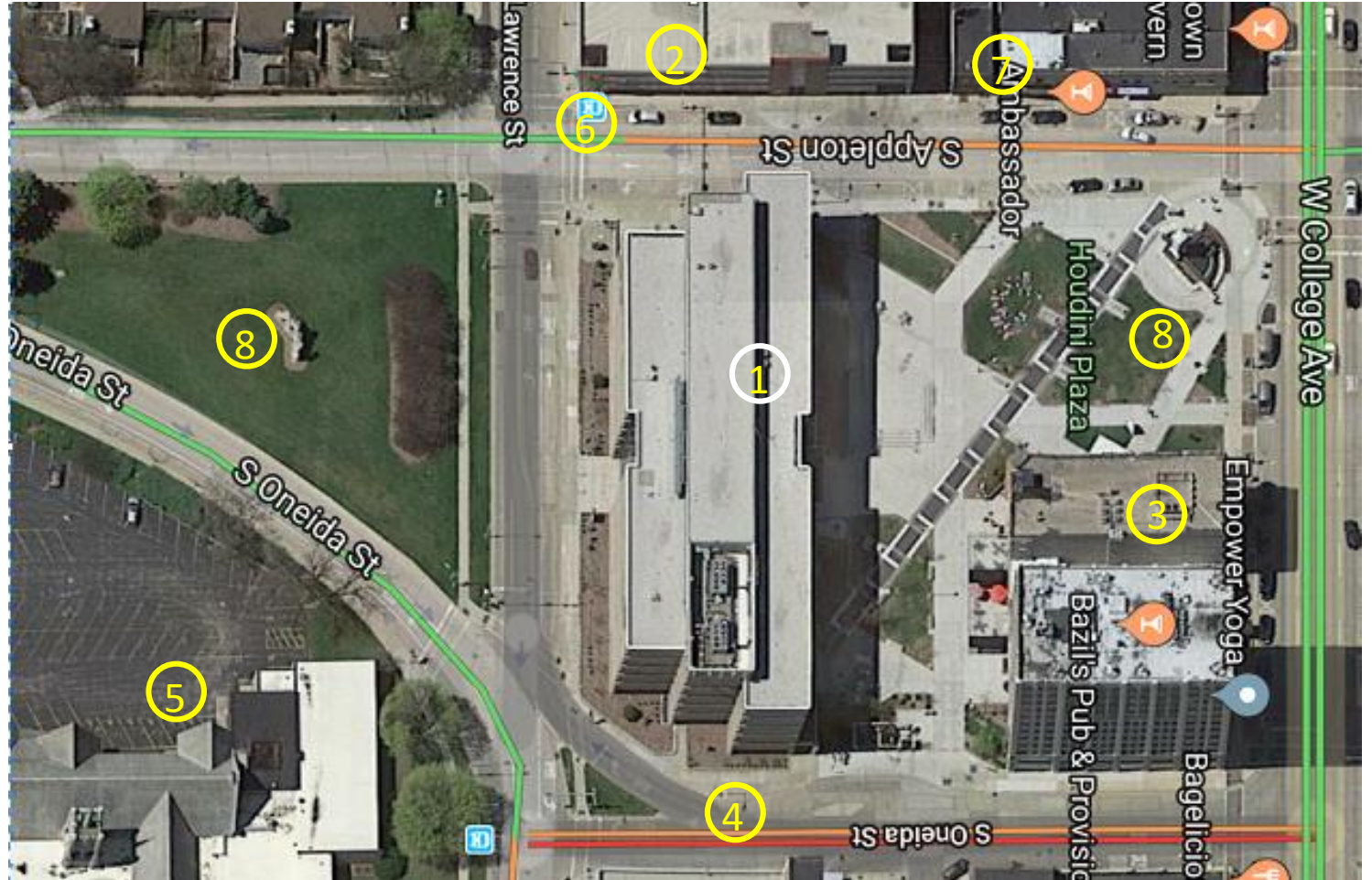
D-1: Central Business District
D-2: Downtown Support District
D-3: Downtown Warehouse/Residential Dist.

PL: Public Lands
PL2: Public Lands Library

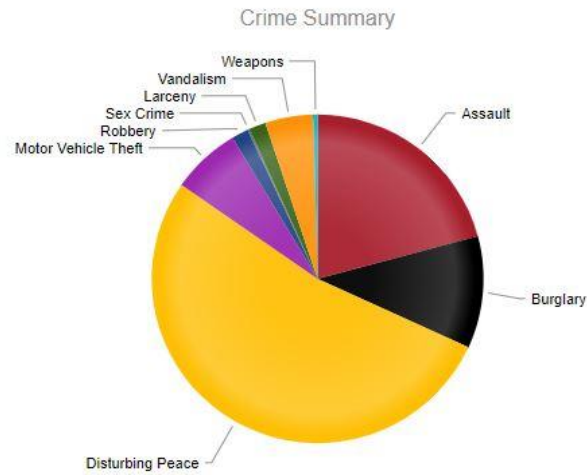
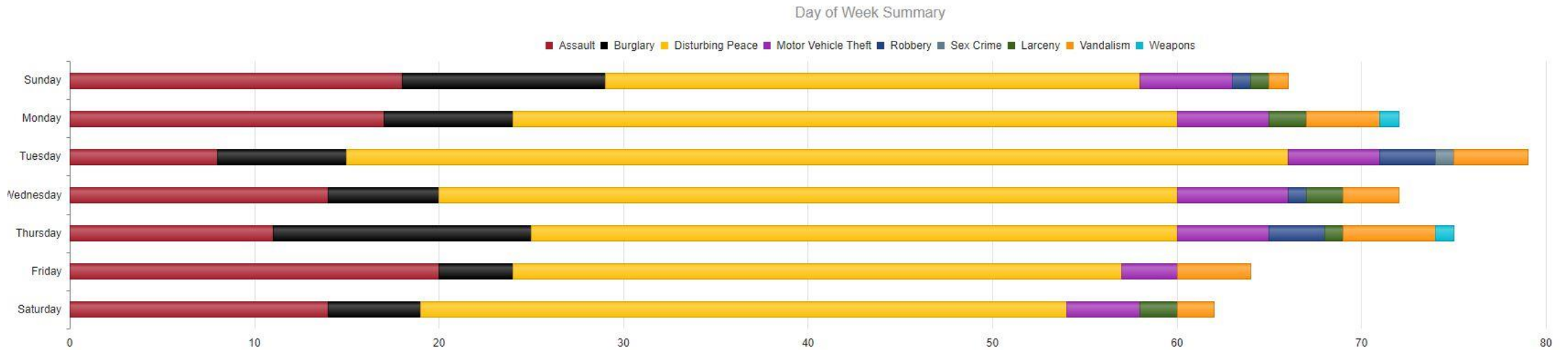
RO: Residential Office
TSA-UC-C: Urban Center Transit Station

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1. Appleton Center
2. West side parking garage
3. Trout Museum of Art
4. East side parking garage
5. Vacant Church / Parking
6. Bus stop (NE & NW)
7. Bar/Food (Bazils Pub / Old Time Tavern / Ambassador)
8. Green space (Monument / Houdini Park)

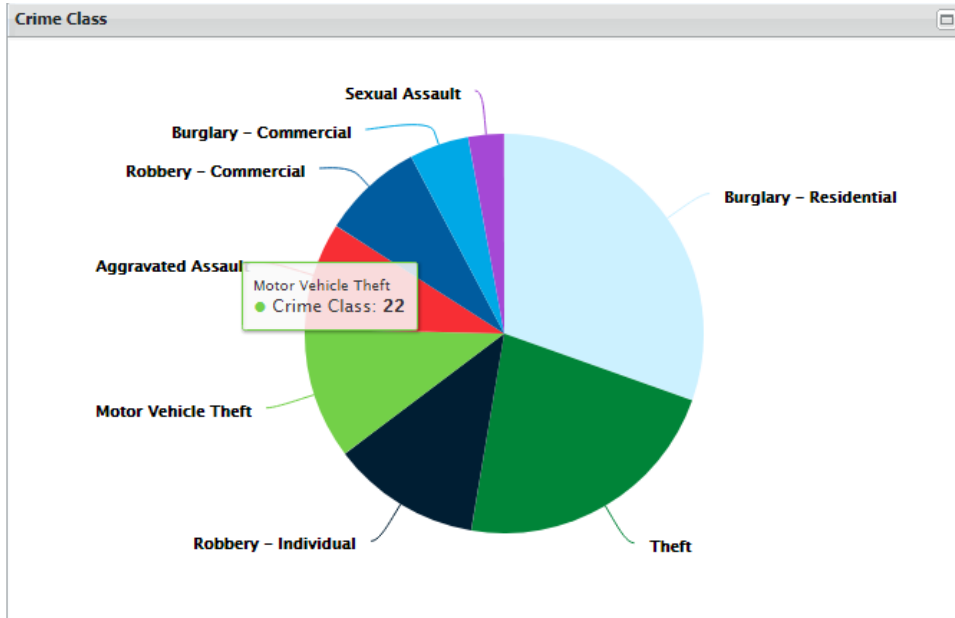


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**Crime Analysis
5 Year**

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June-July

Violent Crime	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018*
Murder	3	8	5	4	1
Rape	36	54	37	50	53
Armed Robbery	75	94	70	66	69
Strong Arm Robbery	101	91	90	79	100
Aggravated Assault	358	290	314	351	297
Total Violent Crime	573	537	516	550	520

Property Crime	2013/2014	2014/2015	2015/2016	2016/2017	2017/2018*
Residential Burglary	420	258	265	205	203
Non-Residential Burglary	247	200	217	204	169
Theft >= \$400	878	660	794	652	666
Theft < \$400	1620	1374	1535	1314	1050
Motor Vehicle Theft	725	542	611	515	434
Total Property Crime	3890	3034	3422	2890	2522

*pending June 2018 numbers

3-Mile Methodology: Tract Map

CAP Index, Inc.

This site's 2018 National CAP Index Score:

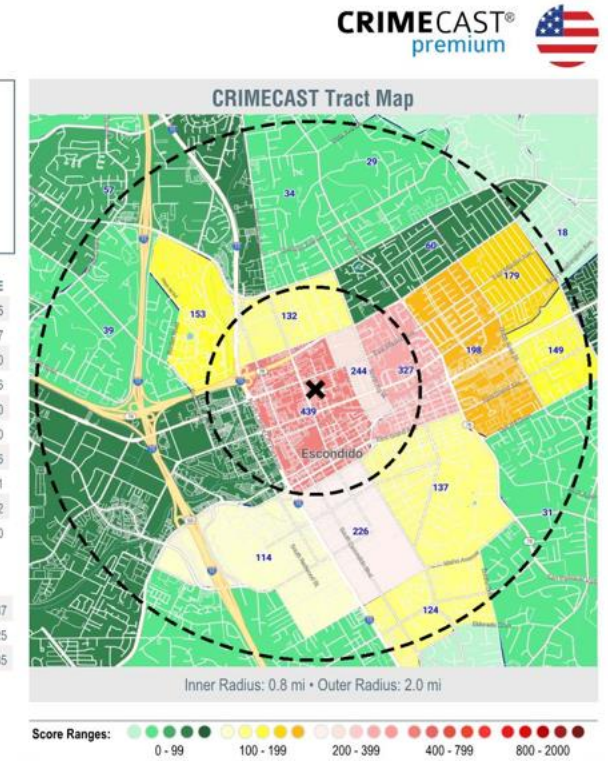
325

210 E Park Ave
210 E Park Ave
Escondido, CA 92025
Latitude: 33.12939
Longitude: -117.08378

CRIMECAST Scores are based on a scale of 0 to 2000, with 0 representing the lowest risk and 2000 the highest - 100 is average. A score of 325 is 3.25 times higher than average.

Within this map, individual census tracts are color-coded to depict the level of risk within the tract and identify the potential origin of crime or criminal behavior.

CRIMECAST CATEGORY	SCORE
CAP Index	325
Homicide	127
Rape	370
Robbery	316
Aggravated Assault	150
Crimes Against Persons	180
Burglary	96
Larceny	181
Motor Vehicle Theft	562
Crimes Against Property	200
CAP INDEX SCORE	
Past - 2010	287
Current - 2018	325
Projected - 2023	335



Creation Date: July 26, 2018
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Crime Analysis 5 Year

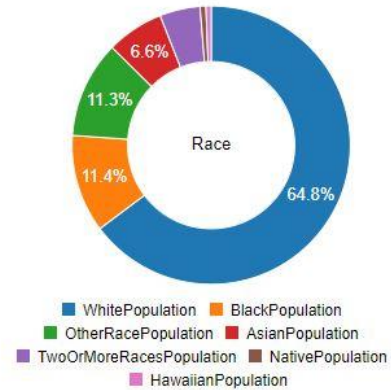
Conducting a CPTED Site Survey

Demographics

Las Vegas Race Data

Race	Population	Percentage
White	391,879	61.92%
Black or African American	68,724	10.86%
Some Other Race	68,132	10.76%
Asian	40,218	6.35%
Two or More Races	28,404	4.49%
American Indian and Alaska Native	4,129	0.65%
Native Hawaiian and Other Pacific Islander	3,611	0.57%

Download 

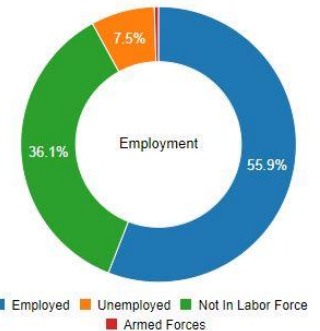


Year	Population	Growth	Growth Rate
2016	632,912	10,464	1.68%

Las Vegas Housing Indicators

Indicator	Value
Median Number of Rooms (per House)	5.2
Houses Without Mortgage	30,319
Houses With Mortgage	81,862
Vacancy Rate	13.9
Median Rent	975
Median Home Value	168,800
Renter-Occupied Units	103,433
Owner-Occupied Units	112,181
Total Housing Units	250,279

Download 

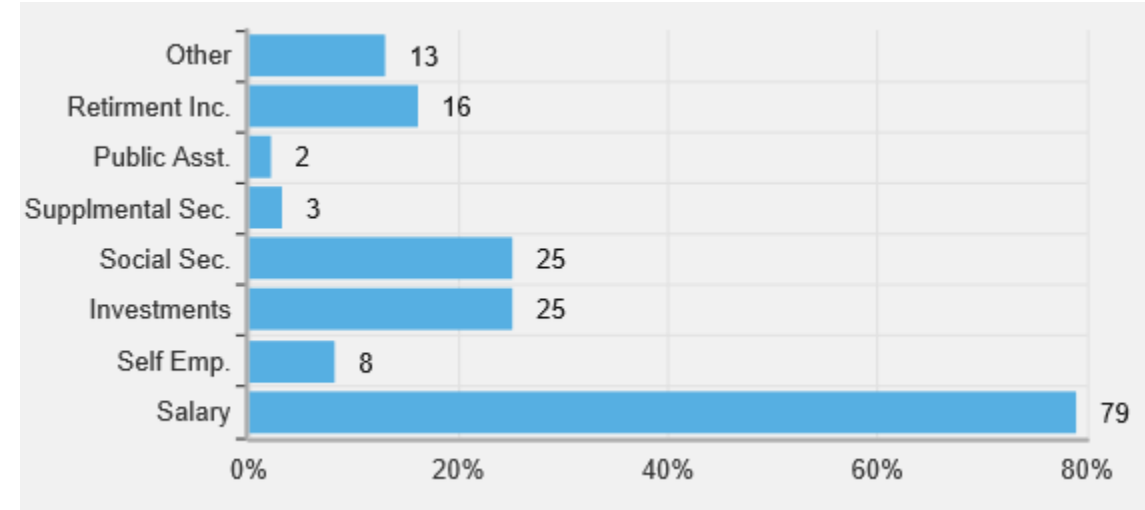
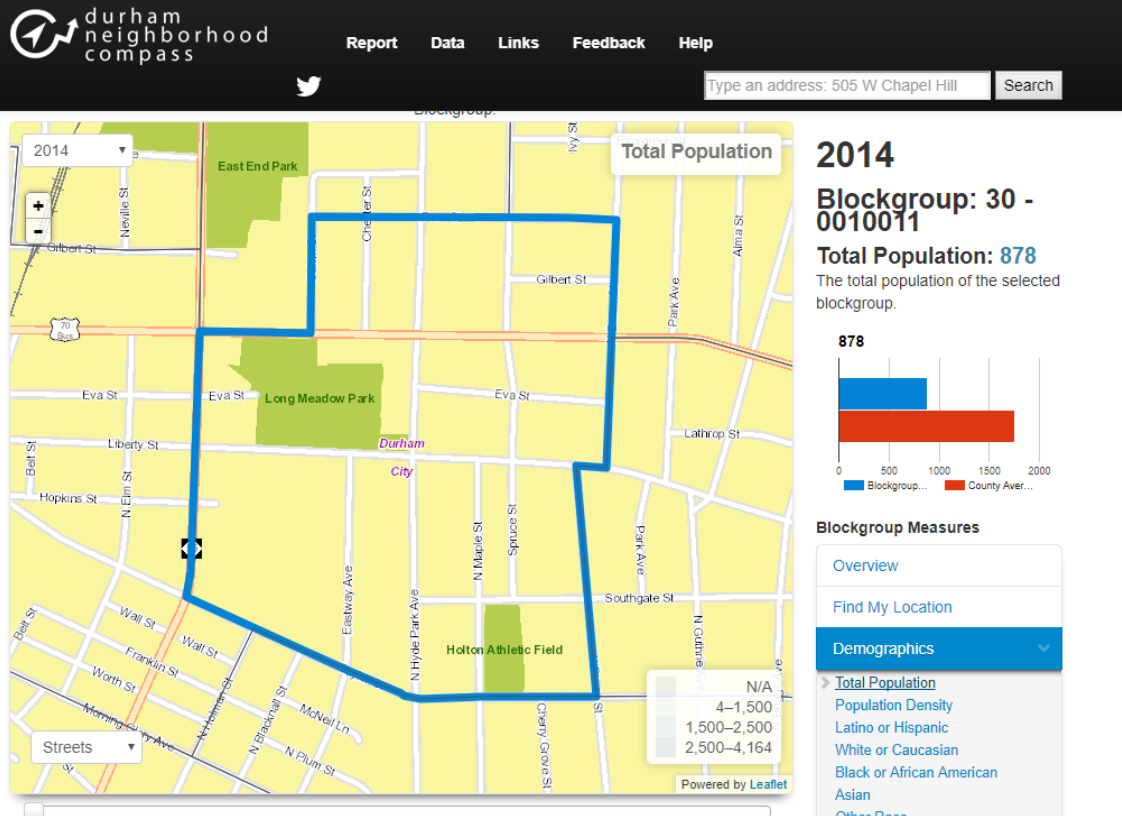


This chart shows the employment and labor force participation rates in Las Vegas for residents over 16 years of age. The 2015 unemployment rate is 7.5% and the labor force participation rate is 63.9%.

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Demographics

- Source of Income



- ❖ Car Ownership: 98%
- ❖ 8.26% Carpool
- ❖ <1% Take Public Transportation
- ❖ Poverty Rate: 11.9%

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Site Analysis

Example Facility:

- Hours of operations – 8:00 AM – 10:00 PM Monday - Friday
- Founded in 2008 / Family operated
- 2009 it became the regional distribution center
- North of Greater Metro Area, 300,00 sq. ft
- 16 onsite delivery trucks
- 125 employees
- Onsite armed & unarmed security
- Leadership in Energy and Environmental Design (LEED) Platinum Designed Facility

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Natural Surveillance

Floor to ceiling windows

Second floor window

Office space overlooks public areas

Customer service window /
orientation

Natural surveillance into and around
the site.



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Natural Access Control

Any access point takes you to the building

Prominent and less confusing

Encourages normal users to utilize the paths



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Territorial Reinforcement

Business names displayed prominently

Decorative see through fencing around perimeter

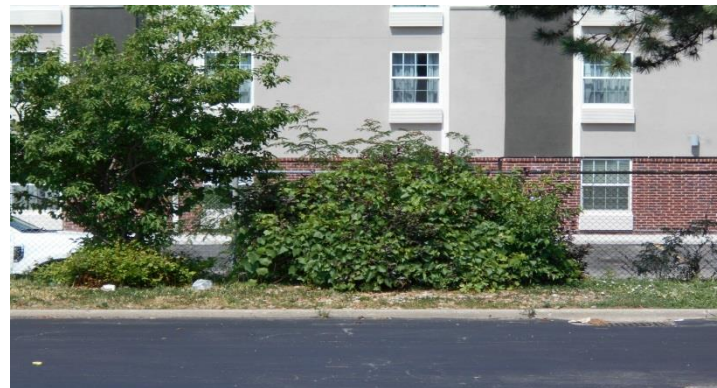
Clear transition from public to semi-private to private spaces



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Maintenance

- Damaged bollards / electrical outlets
- Missing lights / lights in tree canopy
- Overgrown landscaping 2 ft. 6 ft. rule
- Graffiti

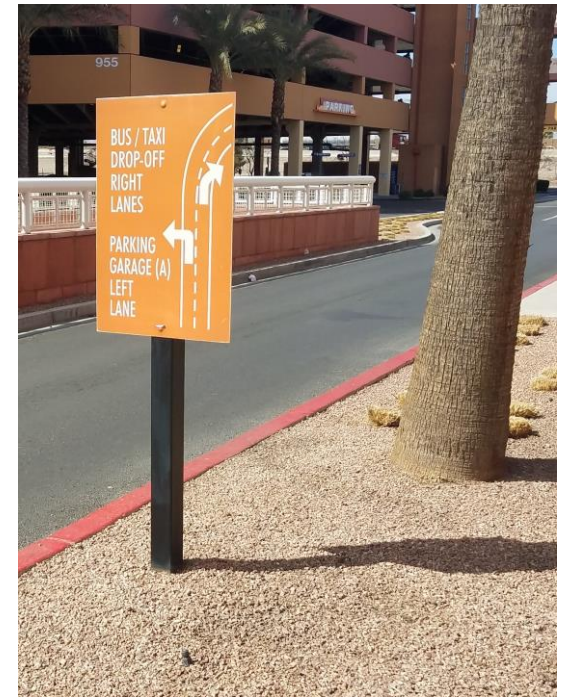


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Traffic Calming

Use of single lane roads, median barriers, and street signage to encourage safe vehicle speeds around pedestrian areas.

Curb extensions and Chicane lanes causes traffic to enter the parking area at a slower speed. Once inside, there are parking islands that break up the flow of traffic.



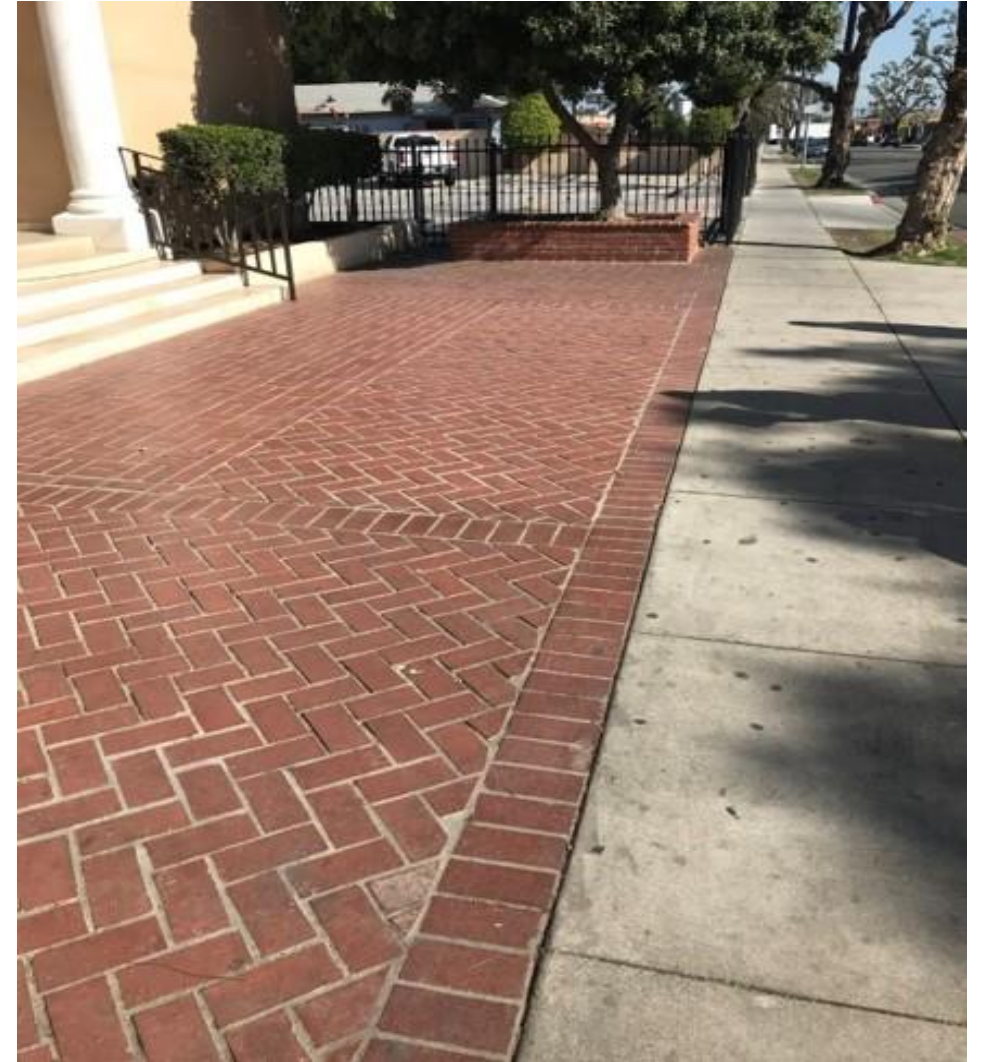
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Transition Zones

Transition zones were clearly defined

Space appeared to support its intended use

Design promoted a clear transition from public to semi-public to private space



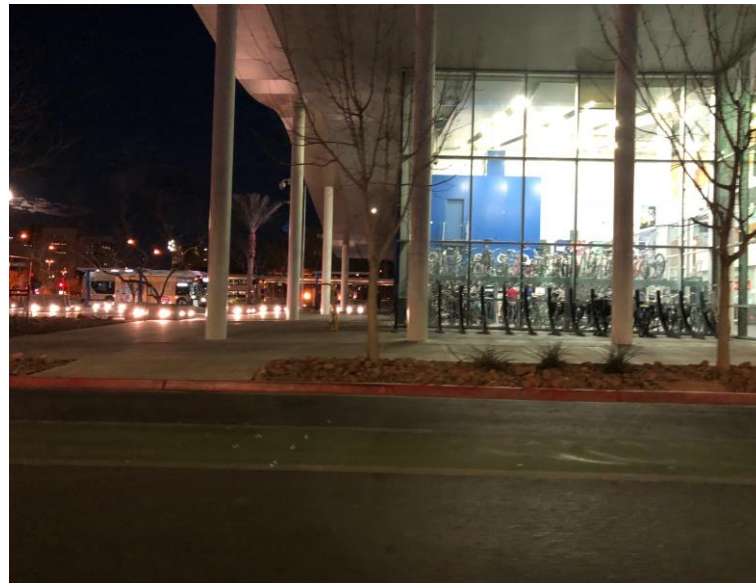
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Lighting / Light Trespass / Glare



Transit center is equipped with LED lighting throughout. Most fixtures are full cut off, eliminating glare. Bus benches are illuminated. Lobby uses a mixture of natural light. Windows provide natural surveillance. Pedestrian walkways are illuminated to 1 FC.

- Employee parking – shoebox, flood, and canopy lights
- Office and Entrance – Cobra, ceiling, and wall pack lights



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Celebrated Entryway



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Focal Point



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Wayfinding



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Positive Activity Generator

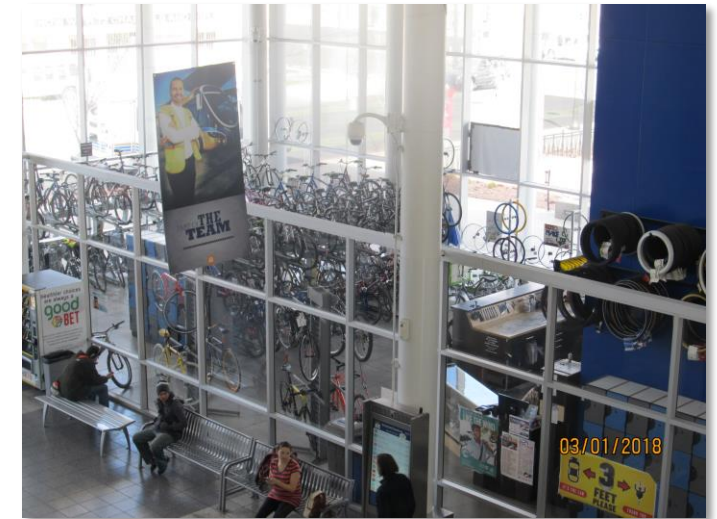
Phone Charging Station

Onsite Bike Shop with showers for members

Bike rental program

Food Truck at designated location

Open 'Friendly Plaza' in front of building encourages neighborhood use and activities



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Negative Activity Generator

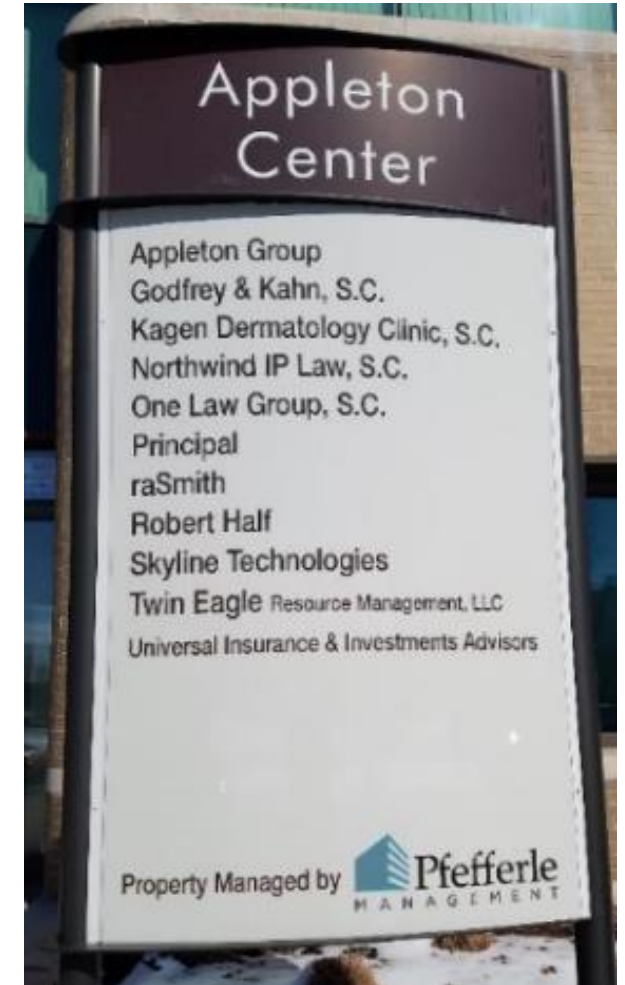


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Pedestrian Scale

Signage is at appropriate level.

Signage is plentiful without being cluttered.



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Connectability

Located within one block of three transit stops.

Between two public parking garages.

Within walking distance to a neighboring community

Alternative transportation available
(energy car parking, bike rack, rent-a-bike...)



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Social Management

Locals night every Wednesday: Sales and transportation provided to members of the community

Susan G. Komen breast cancer awareness events with fundraisers: pink popcorn, pink lemonade

Scholarships for graduating high school seniors through gift card fundraisers

Girl Scout nights with cookie sales and special prices for Girl Scouts shopping in the outlets

Christmas wrapping events to wrap donated gifts for children in the community

Military discount program



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Site Recommendations

- Additional lighting is required in the east alley. Recommend LED wall packs on east walls with 90 degree cut off providing uniform lighting
- Additional cameras on the perimeter required to improve visibility to security team at personnel entrance with intercom
- Dumpster requires additional barriers to restrict access
- South transformer requires graffiti maintenance and should be enclosed to remove hiding area
- West parking lot requires illumination to standard 90 degree cut off uniformity lighting to 4:1
- West side pedestrian controlled elevated sidewalk speed humps
- Remove garbage cans from perimeter location to deter bin divers
- Interior emergency exits need to be clearly identified
- Clearly mark the emergency call box