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July 17, 2017

Ms. Andrea Schultz, Head of Operations CAJA Environmental Services, LLC 15350 Sherman Way, Suite 315 Van Nuys, CA 91406

Dear Ms. Schultz,

Subject: Los Angeles Department of Water and Power

Water and Electricity Connection Services Request

Central Plaza Project

The Los Angeles Department of Water and Power (LADWP) is in receipt of your letter dated June 29, 2017 requesting LADWP's ability to provide water and electric services for the Central Plaza Project (Thomas Brothers Maps, Page 633, J3).

The Project is the Central Plaza Project (Project). The Project site is bounded on the north by Wilshire Boulevard, on the west by Irolo Street, on the south by 7<sup>th</sup> Street, and on the east by Mariposa Avenue. The address of the Project site is 3432-3470 West Wilshire Boulevard, 659-699 South Mariposa Avenue, 3265-3287 West 7<sup>th</sup> Street, and 666-678 South Irolo Street, Los Angeles, California 90005/90010 in the Wilshire Community Plan.

Current development at the Project site include four commercial office buildings with ground floor retail uses that front West Wilshire Boulevard and South Irolo Street, a three-story parking structure, and a five-story parking structure. The proposed Project will involve the demolition of the existing three-story parking structure, adding ground floor retail to the existing commercial office buildings, constructing three commercial kiosks along Wilshire Boulevard and Irolo Street, and constructing a 23-story mixed-use building and a 28-story mixed-use building on top of a podium that is four stories above grade and two stories subterranean. The 23-story mixed-use building will include approximately 280 apartment units, rooftop amenities, and commercial space. The 28-story mixed-use building will include approximately 361 apartment units, rooftop amenities, and commercial space. Both buildings will share a podium with amenity space and four stories of above-grade and two stories of below-grade parking. In total, this Project will result in 18,454 square feet of commercial floor area (13,500 square feet of retail area and 4,954 square feet of restaurant area) and 1,910 vehicle parking spaces.



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We are providing information for consideration and incorporation into the planning, design, and development efforts for the proposed Project. Regarding water needs for the proposed Project, this letter does not constitute a response to a Water Supply Assessment (WSA) pursuant to California State Water Code Sections 10910-10915 for development projects to determine the availability of long-term water supply. Depending on the Project scope, a WSA by the water supply agency may need to be requested by the CEQA Lead Agency and completed prior to issuing a draft Negative Declaration or draft Environmental Impact Report (EIR).

If a Lead Agency determines that the proposed Project parameters (e.g., development details such as type, square footage, anticipated water demand, population increase, etc.) are such that they are subject to state law requiring a WSA, a separate request must be made in writing and sent to:

Mr. Richard Harasick Senior Assistant General Manager – Water System Los Angeles Department of Water and Power 111 North Hope Street, Room 1455 Los Angeles, CA 90012

If you have any further questions regarding the water supply assessment process, please contact Mr. Delon Kwan, at (213) 367-2166 or by e-mail at <u>Delon.Kwan@ladwp.com</u>,

Below you will find some information about water needs.

#### **Water Needs**

As the Project proceeds further in the design phase, we recommend the Project applicant or designated Project Management Engineer contact Mr. Hugo Torres at (213) 367-2130 or by e-mail at Hugo.Torres@ladwp.com to make arrangements for water supply service needs.

The following responses are provided regarding impacts to water service.

1. Please describe sizes and capacities of existing water mains that would serve the Project Site.

The Project site is served by a 30-inch CI pipe in Wilshire Blvd, a 16-inch CI pipe in Irolo St, and an 8-inch CI pipe in Maripose Ave. Please see the attached Water Service Map 134-195

2. Are there any existing water service problems/deficiencies in the Project area?

There are no problems/deficiencies in the Project area.

3. Would LADWP be able to accommodate the Project's demand for water service with the existing infrastructure in the Project area? If not, what new infrastructure or upgrades to infrastructure would be needed?

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LADWP should be able to provide the domestic needs of the project from the existing water system. LADWP cannot determine the impact on the existing water system until the fire demands of the project are known. Once a determination of the fire demands has been made, LADWP will assess the need for additional facilities, if needed.

4. How does the City anticipate and plan for future water service needs?

The LADWP works closely with the City of Los Angeles, Department of City Planning to develop and update our Urban Water Management Plan (UWMP) every five years. The UWMP is the planning document for future water demands for the City. The UWMP identifies short-term and long-term water resources management measures to meet growing water demands during normal, single-dry, and multiple-dry years over a 20-year horizon. The City's water demand projection in the UWMP was developed based on the Regional Transportation Plan (RTP) demographic projection by the Southern California Association of Governments (SCAG).

See the following link to the 2015 UWMP:

# http://www.ladwp.com/docs/QOELLADWP005416

In general, projects that conform to the demographic projection from RTP by SCAG and are currently located in the City's service area are considered to have been included in LADWP's water supply planning efforts in the UWMP; therefore, projected water supplies would meet projected demands.

The proposed Project may be required to comply with the California Water Code Sections 10910-10915, in accordance with adopted legislation (SB 901, SB 610, and SB 221) for a Water Supply Assessment (WSA). The CEQA lead agency, not LADWP, determines whether or not the proposed project parameters are subject to state law requiring a WSA, and a separate request must be made by the lead agency in writing and sent to LADWP.

5. In order to assess the proposed Project's future consumption of water, please provide your recommended rates. Land Use: \_\_\_ gallons / unit / day.

For estimating a project's indoor water demand, we use applicable sewer generation factors (sgf). Please refer to the attached table displaying the current SGFs.

For outdoor (landscape) water demand, we use California Code of Regulations Title 23. Division 2. Chapter 2.7. Model Water Efficient Landscape Ordinance. Please refer to the following link:

http://www.water.ca.gov/wateruseefficiency/landscapeordinance/

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If the proposed project scope includes cooling tower(s), consult a mechanical engineer to estimate the cooling water demand.

Applicants are encouraged to commit to water conservation measures that are beyond the current codes and ordinances, to lower the net additional water demand for the proposed project.

6. Please provide any recommendations that might reduce any potential water supply impacts that would be associated with the Project.

In addition to compliance with city ordinances and permit requirements related to water conservation, including Ordinance No. 184248, effective June 6<sup>th</sup> 2016, applicants are also encouraged to implement voluntary conservation measures beyond those required by ordinance. Specific conservation nmeasures may depend on project uses. Some measures may also include using more efficient faucets, shower heads, and appliances as well as implementing Best Management Practices that may include onsite capture and reuse of stormwater to displace potable water consumption.

For more information, please see the conservation pages on LADWP's website:

https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-conservation? adf.ctrl-state=6gx7kgl3j 4& afrLoop=215674915771936

#### **Power Needs**

It should be noted that the Project Applicant may be financially responsible for some of infrastructure improvements (e.g., installation of electric power facilities or service connections) necessary to serve the proposed Project.

As the Project proceeds further, please contact one of our Engineering Offices, as listed on Pages 1-4 of the Electric Service Requirements (available on-line at <a href="https://www.ladwp.com">www.ladwp.com</a>) for dealing with power services and infrastructure needs.

- 1. Please describe the sizes and voltages of existing electrical distribution lines and facilities that would serve the Project site and the surrounding. Please include a map illustrating your description.
  - Many underground 4.8-kV circuits are adjacent to the Project site along Mariposa Avenue, Wilshire Boulevard, Irolo Avenue, and 7<sup>th</sup> Street.
  - Underground 34,5-kV circuits are adjacent to the Project site along Mariposa Avenue, Wilshire Boulevard, and Irolo Avenue.
  - Based on LADWP's preliminary estimated electric demand of the Project, it will be supplied from LADWP's 34.5-kV system, and may require the consolidation of existing and new loads within the Project site.

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- LADWP may require space for a minimum of two pads for electrical equipment within the property with the required clearances and LADWP should have accessibility to the equipment.
- LADWP does not release/provide electrical distribution maps.
- 2. Are there any existing electricity service problems/deficiencies in the Project area?

No, however, the cumulative effects of this and other projects in the area will require the Department to construct additional distribution facilities in the future. The Project would require on-site transformation facility.

3. Would the LADWP be able to accommodate the proposed Project's demand for electricity service with the existing infrastructure in the Project area? If not, what new infrastructure would be needed to meet the proposed Project's demand for electricity?

This cannot be answered without the review of the Project developer's electrical drawings and load schedules. However, the cumulative effects of this and other projects in the area will require the LADWP to construct additional distribution facilities in the future. This Project will require on-site transformation and may require underground line extension on public streets.

4. Would the LADWP be able to accommodate the proposed Project's demand for electricity with existing electricity supplies?

Electrical Service is available and will be provided in accordance with the LADWP's Rules Governing Water and Electric Service (available on-line at <a href="https://www.ladwp.com">https://www.ladwp.com</a> under Commercial/Customer Service/Electric Services/Codes & Specifications). The estimated power requirement for this proposed Project is part of the total load growth forecast for the City of Los Angeles and has been taken into account in the planned growth of the City's power system.

LADWP's load growth forecast incorporates construction activity and is built into the commercial floor space model; the McGraw Hill Construction report identifies all large projects. In planning sufficient future resources, LADWP's Power Integrated Resource Plan incorporates the estimated power requirement for the proposed Project through the load forecast input and has planned sufficient resources to supply the electricity needs.

5. In order to assess the proposed Project's future consumption of electricity, please provide us with your recommended rates. Land Use: multi-family residential = Kilowatt-hour / unit / year.

LADWP does not provide consumption rates.

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Please see enclosed document titled, "LADWP Water and Energy Conservation Measures," for information regarding mandatory and voluntary measures to reduce water and energy consumption.

### **Water Conservation**

LADWP is always looking for means to assist its customers to use water resources more efficiently and welcomes the opportunity to work with new developments to identify water conservation opportunities. Some water conservation measures are enclosed. The LADWP website contains a current list of the available rebates and incentive programs, including the performance based Custom Water Conservation Technical Assistance Program (WCTAP, <a href="https://www.ladwp.com/ladwp/faces/wcnav\_externalld/a-w-cstm-wtr-prjct-tap?">https://www.ladwp.com/ladwp/faces/wcnav\_externalld/a-w-cstm-wtr-prjct-tap?</a> adf.ctrl-state=h8fsat92s 4& afrLoop=3392823718109) for commercial, industrial, institutional and multi-family residential customers up to \$250,000 for the installation of pre-approved equipment which demonstrates water savings. Mr. Mark Gentili is the Water Conservation Program Manager and can be reached at (213) 367-8556 or by e-mail at <a href="mailto:Mark.Gentili@ladwp.com">Mark.Gentili@ladwp.com</a>. See the following link for LADWP water conservation rebate information on our website: <a href="https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-conservation">https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-conservation</a>

## **Energy Efficiency**

LADWP suggests consideration and incorporation of energy- efficient design measures (enclosed) for building new commercial and/or remodeling existing facilities. Implementation of applicable measures would exceed Title 24 energy efficiency requirements. LADWP continues to offer a number of energy efficiency programs to reduce peak electrical demand and energy costs. For further information please contact Ms. Lucia Alvelais, Utility Services Manager, at (213) 367-4939 or by e-mail at <a href="mailto:Lucia.Alvelais@ladwp.com">Lucia.Alvelais@ladwp.com</a>. See the following link for LADWP energy efficiency rebate information on our website: <a href="https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-power/a-p-energyefficiencyandrebates">https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-power/a-p-energyefficiencyandrebates</a>

#### Solar Energy

Solar power is a renewable, nonpolluting energy source that can help reduce our dependence on fossil fuels. Mr. Jason Rondou is the Solar Energy Program Manager and can be reached at (213) 367-3601 or by e-mail at <a href="mailto:Jason.Rondou@ladwp.com">Jason.Rondou@ladwp.com</a>.

For more information about the Solar Incentive Program, please visit the LADWP website: <a href="https://www.ladwp.com/solar">www.ladwp.com/solar</a> or <a href="https://www.ladwp.com/fit">www.ladwp.com/fit</a> regarding the Feed-In Tariff Program.

For more information on other rebates and programs, please visit the LADWP website: <a href="https://www.ladwp.com/ladwp/faces/ladwp/commercial/c-savemoney/c-sm-rebatesandprograms">https://www.ladwp.com/ladwp/faces/ladwp/commercial/c-savemoney/c-sm-rebatesandprograms</a>

#### Electric Vehicle Transportation

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LADWP is encouraging the installation of convenient electric vehicle (EV) charging stations for the home, workplace, and public charging to support the adoption of EVs in the City of Los Angeles. Mr. Marvin D. Moon is the Power Engineering Manager in charge of this program and can be reached at (213) 367-1716 or via email at Marvin.Moon@ladwp.com.

For more information on LADWP EV discount rates and charging incentives for residential and business customers, please visit the website: www.ladwp.com/ev. If you would like a Customer Service Representative to answer your questions or review your account and help you decide on the best option, please call us at 1-866-484-0433 or email us at PluginLA@ladwp.com.

Please include LADWP in your mailing list and address it to the attention of Mr. Charles C. Holloway in Room 1044 for review of the environmental document for the proposed Project.

> Mr. Charles C. Holloway Manager of Environmental Planning and Assessment Los Angeles Department of Water and Power 111 North Hope Street, Room 1044 Los Angeles, CA 90012

If there are any additional questions on this utility services request, please contact Mr. Aiden Leong of the Environmental Assessment Group at (213) 367-0706.

Sincerely,

Charles C. Holloway

Manager of Environmental Planning and Assessment

AL:rc

Enclosures

c/enc: Ms. Lucia Alvelais

Ms. Richard Harasick

Charles C. Hollering

Mr. Chuck Holloway

Mr. Delon Kwan

Mr. Aiden Leong

Mr. Marvin D. Moon

Mr. Jason Rondou

Mr. Mark Gentili

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD (mg/l)	SS (mg/l)
No.	A	120/1,000 Gr SF	265	275
	Acupuncture Office/Clinic	50/1,000 Gr SF	265	275
	Arcade - Video Games	3/Seat	265	275
	Auditorium (a)		265	275
	Auto Parking (a)	20/1,000 Gr SF	1,260	1,165
	Auto Mfg., Service Maintenance (b)	Actual 280/1,000 Gr SF	3,020	2,540
	Bakery		265	2,340
	Bank: Headquarters	120/1,000 Gr SF		
	Bank: Branch	50/1,000 Gr SF	265	275
	Ballroom	350/1,000 Gr SF	265	275
	Banquet Room	350/1,000 Gr SF	265	275
	Bar: Cocktail, Fixed Set (a) (c)	15/Seat	265	275
	Bar: Juice, No Baking Facilities (d)	720/1,000 Gr SF	265	275
13	Bar: Juice, with Baking Facilities (d)	720/1,000 Gr SF	265	275
14	Bar: Cocktail, Public Table Area (c)	720/1,000 Gr SF	265	275
15	Barber Shop	120/1,000 Gr SF	265	275
16	Barber Shop (s)	15/Stall	265	275
17	Beauty Parlor	425/1,000 Gr SF	265	275
18	Beauty Parlor (s)	50/Stall	265	275
19	Bldg. Const/Field Office (e)	120/Office	265	275
	Bowling Alley: Alley, Lanes & Lobby Area	50/1,000 Gr SF	265	275
	Bowling Facility: Arcade/Bar/Restaurant/Dancing	Total	Average	Average
	Cafeteria: Fixed Seat	30/Seat	1,000	600
23	Car Wash: Automatic (b)	Actual	265	285
	Car Wash: Coin Operated Bays (b)	Actual	265	285
	Car Wash: Hand Wash (b)	Actual	265	285
	Car Wash: Counter & Sales Area	50/1,000 Gr SF	265	275
	Chapel: Fixed Seat	3/Seat	265	275
	Chiropractic Office	120/1,000 Gr SF	265	275
	Church: Fixed Seat	3/Seat	265	275
	Church School: Day Care/Elem	9/Occupant	265	275
1	Church School: One Day Use (s)	9/Occupant	265	275
	Cocktail Lounge: Fixed Seat (f)	15/Seat	265	275
	Coffee House: No Food Preparation (d)	720/1,000 Gr SF	265	275
	Coffee House: Pastry Baking Only (d)	720/1,000 Gr SF	265	275
	Coffee House: Serves Prepared Food (d)	25/Seat	1,000	600
	Cold Storage: No Sales (g)	30/1,000 Gr SF	265	275
	Cold Storage: Retail Sales (g)	50/1,000 Gr SF	265	275
	Comfort Station: Public	80/Fixture	265	275
	Commercial Use (a)	50/1,000 Gr SF	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
40	Community Center	3/Occupant	265	275
41	Conference Room of Office Bldg.	120/1,000 Gr SF	265	275
42	Counseling Center (h)	120/1,000 Gr SF	265	275
43	Credit Union	120/1,000 Gr SF	265	275
44	Dairy	Average Flow	1,510	325
45	Dairy: Barn	Average Flow	1,510	325
46	Dairy: Retail Area	50/1,000 Gr SF	265	275
47	Dancing Area (of Bars or Nightclub) (c)	350/1,000 Gr SF	265	275
48	Dance Studio (i)	50/1,000 Gr SF	265	275
49	Dental Office/Clinic	250/1,000 Gr SF	265	275
50	Doughnut Shop	280/1,000 Gr SF	1,000	600
	Drug Rehabilitation Center (h)	120/1,000 Gr SF	265	275
	Equipment Booth	30/1,000 Gr SF	265	275
	Film Processing (Retail)	50/1,000 Gr SF	265	275
	Film Processing (Industrial)	Actual	265	275
	Food Processing Plant (b)	Actual	2,210	1,450
	Gas Station: Self Service	100/W.C.	265	275
57	Gas Station: Four Bays Max	430/Station	1,950	1,175
	Golf Course Facility: Lobby/Office/Restaurant/Bar	Total	700	450
	Gymnasium: Basketball, Volleyball (k)	200/1,000 Gr SF	265	275
	Hanger (Aircraft)	50/1,000 Gr SF	265	275
	Health Club/Spa (k)	650/1,000 Gr SF	265	275
	Homeless Shelter	70/Bed	265	275
63	Hospital	70/Bed	820	1,230
	Hospital: Convalescent (a)	70/Bed	265	275
	Hospital: Animal	300/1,000 Gr SF	820	1,230
66	Hospital: Psychiatric	70/Bed	265	275
	Hospital: Surgical (a)	360/Bed	265	275
	Hotel: Use Guest Rooms Only (a)	120/Room	265	275
	Jail	85/Inmate	265	275
70	Kennel: Dog Kennel/Open	100/1,000 Gr SF	265	275
	Laboratory: Commercial	250/1,000 Gr SF	265	275
72	Laboratory: Industrial	Actual	265	
	Laundromat	185/Machine	550	370
	Library: Public Area	50/1,000 Gr SF	265	275
-	Library: Stacks, Storage	30/1,000 Gr SF	265	275
	Lobby of Retail Area (1)	50/1,000 Gr SF	265	275
-	Lodge Hall	3/Seat	265	275
	Lounge (I)	50/1,000 Gr SF	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
79	Machine Shop (No Industrial Waste Permit Required) (b)	50/1,000 Gr SF	265	275
	Machine Shop (Industrial)	Actual	265	275
	Mfg or Industrial Facility (No IW Permit Required) (b)	50/1,000 Gr SF	265	275
	Mfg or Industrial Facility (Industrial)	Actual	265	275
	Massage Parlor	250/1,000 Gr SF	265	275
	Medical Building (a)	225/1,000 Gr SF	265	275
	Medical: Lab in Hospital	250/1,000 Gr SF	340	275
	Medical Office/Clinic	250/1,000 Gr SF	265	275
	Mini-Mall (No Food)	50/1,000 Gr SF	265	275
	Mortuary: Chapel	3/Seat	265	275
	Mortuary: Embalming	300/1,000 Gr SF	800	800
	Mortuary: Living Area	50/1,000 Gr SF	265	275
	Motel: Use Guest Room Only (a)	120/Room	265	275
	Museum: All Area	30/1,000 Gr SF	265	275
960000	Museum: Office Over 15%	120/1,000 Gr SF	265	275
	Museum: Sales Area	50/1,000 Gr SF	265	275
	Office Building (a)	120/1,000 Gr SF	265	275
	Office Bldg w/Cooling Tower	170/1,000 Gr SF	265	275
	Plating Plant (No IW Permit Required) (b)	50/1,000 Gr SF	265	275
98	Plating Plant (Industrial) (b)	Actual	265	275
99	Pool Hall (No Alcohol)	50/1,000 Gr SF	265	275
	Post Office: Full Service (m)	120/1,000 Gr SF	265	275
	Post Office: Private Mail Box Rental	50/1,000 Gr SF	265	275
	Prisons	175/Inmate	265	275
	Residential Dorm: College or Residential (n)	70/Student	265	275
	Residential: Boarding House	70/Bed	265	275
	Residential: Apt - Bachelor (a)	75/DU	265	275
	Residential: Apt - 1 BDR (a) (o)	110/DU	265	275
	Residential: Apt - 2 BDR (a) (o)	150/DU	265	275
	Residential: Apt - 3 BDR (a) (o)	190/DU	265	275
	Residential: Apt - >3 BDR (o)	40/BDR	265	275
	Residential: Condo - 1 BDR (o)	110/DU	265	275
	Residential: Condo - 2 BDR (o)	150/DU	265	275
	Residential: Condo - 3 BDR (o)	190/DU	265	275
11	Residential: Condo - >3 BDR (o)	40/BDR	265	275
	Residential: Duplex/Townhouse - 1 BR (o)	110/DU	265	275
	Residential: Duplex/Townhouse - 2 BR (o)	150/DU	265	275
	Residential: Duplex/Townhouse - 3 BR (o)	190/DU	265	275
	Residential: Duplex/Townhouse - >3 BR (o)	40/BDR	265	275

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
	Residential: SFD - 1 BR (o)	140/DU	265	275
119	Residential: SFD - 2 BR (o)	185/DU	265	275
	Residential: SFD - 3 BR (o)	230/DU	265	275
121	Residential: SFD - >3 BR (o)	45/BDR	265	275
122	Residential Room Addition: Bedroom (o)	45/BDR	265	275
123	Residential Room Conversion: Into a Bedroom (o)	45/BDR	265	275
124	Residential: Mobile Home	Same as Apt	265	275
125	Residential: Artist (2/3 Area)	75/DU	265	275
126	Residential: Artist Residence	75/DU	265	275
127	Residential: Guest Home w/ Kitchen	Same as Apt	265	275
128	Residential: Guest Home w/o Kitchen	45/BDR	265	275
129	Rest Home	70/Bed	555	490
130	Restaurant: Drive-In	50/Stall	1000	600
131	Restaurant: Drive-In Seating Area	25/Seat	1000	600
132	Restaurant: Fast Food Indoor Seat	25/Seat	1000	600
133	Restaurant: Fast Food Outdoor Seat	25/Seat	1000	600
134	Restaurant: Full Service Indoor Seat (a)	30/Seat	1000	600
135	Restaurant: Full Service Outdoor Seat	30/Seat	1000	600
136	Restaurant: Take Out	300/1,000 Gr SF	1000	600
137	Retail Area (greater than 100,000 SF)	50/1,000 Gr SF	265	275
138	Retail Area (less than 100,000 SF)	25/1,000 Gr SF	265	275
139	Rifle Range: Shooting Stalls/Lanes, Lobby	50/1,000 Gr SF	265	275
	Rifle Range Facility: Bar/Restaurant	Total	Average	Average
	School: Arts/Dancing/Music (i)	11/Student	265	275
	School: Elementary/Jr. High (a) (p)	9/Student	265	275
143	School: High School (a) (p)	11/Student	265	275
	School: Kindergarten (s)	9/Student	265	275
	School: Martial Arts (i)	9/Student	265	275
	School: Nursery-Day Care (p)	9/Child	265	275
	School: Special Class (p)	9/Student	265	275
148	School: Trade or Vocational (p)	11/Student	265	275
	School: Training (p)	11/Student	265	275
150	School: University/College (a) (p)	16/Student	265	275
151	School: Dormitory (a) (n)	70/Student	265	275
-	School: Stadium, Pavilion	3/Seat	265	275
	Spa/Jacuzzi (Commercial with backwash filters)	Total	265	275
154	Storage: Building/Warehouse	30/1,000 Gr SF	265	275
	Storage: Self-Storage Bldg	30/1,000 Gr SF	265	275
156	Store: Ice Cream/Yogurt	25/1,000 Gr SF	1000	600

Line	FACILITY DESCRIPTION	PROPOSED SGF IN GPD	BOD	SS
No.			(mg/l)	(mg/l)
	Store: Retail (I)	50/1,000 Gr SF	265	275
	Studio: Film/TV - Audience Viewing Room (q)	3/Seat	265	
	Studio: Film/TV - Regular Use Indoor Filming Area (q)	50/1,000 Gr SF	265	
160	Studio: Film/TV - Ind. Use Film Process/Machine Shop (q)	50/1,000 Gr SF	265	
	Studio: Film/TV - Ind. Use Film Process/Machine Shop	Total	265	
-	Studio: Recording	50/1,000 Gr SF	265	
	Swimming Pool (Commercial with backwash filters)	Total	265	
	Tanning Salon: Independent, No Shower (r)	50/1,000 Gr SF	265	
	Tanning Salon: Within a Health Spa/Club	640/1,000 Gr SF	265	
	Theater: Drive-In	6/Vehicle	265	
167	Theater: Live/Music/Opera	3/Seat	265	
	Theater: Cinema	3/Seat	265	
169	Tract: Commercial/Residential	1/Acre	265	
	Trailer: Const/Field Office (e)	120/Office	265	
	Veterinary Clinic/Office	250/1,000 Gr SF	265	
1	Warehouse	30/1,000 Gr SF	265	
	Warehouse w/ Office	Total	265	
_	Waste Dump: Recreational	400/Station	2650	
	Wine Tasting Room: Kitchen	200/1,000 Gr SF	265	
	Wine Tasting Room: All Area	50/1,000 Gr SF	265	275

#### FOOTNOTES TO SGFs TABLE

- (a) SFC rates for these facilities have historically been published in SFC ordinances.
- (b) Bureau of Sanitation will determine the flow based on the information given by applicants for facilities with industrial discharge. The flow will be redetermined by Sanitation inspectors annually based on water bills. If the actual flow exceeds the previous year's determined flow, the applicants will be charged for the difference. If this type of facility is exempt from an industrial discharge permit, only the domestic SFC will be assessed.
- (c) The SFC for a bar shall be the sum of SFC's for all areas based on the SGF for each area (ex. fixed seat area, public table area, dancing area).
- (d) The determination of SGF for juice bars and coffee houses previously depended on the extent of the actual food preparation in house, not by the types of food provided. Food is assumed to be prepared offsite and as such, the three prior subcategories have been consolidated.
  - 1) SGF for no pastry baking and no food preparation is 720 gpd/1000 gr.sq.ft.
  - 2) SGF for pastry baking only and no food preparation is 720 gpd/1000 gr.sq.ft.
  - 3) SGF for complete food preparation is 25 gpd/seat, the same as a fast food restaurant.

Juice bars and coffee houses do not serve any alcoholic drinks.

- (e) Building construction includes trailers, field offices, etc.
- (f) Cocktail lounge usually does not serve prepared food.
- (g) Cold storage facilities are categorized as follow:
  - No Sales the cold storage facility is used only for temporary storage, no selling is involved. For example, cold storage facilities at the harbor temporarily store seafood until it is distributed.
  - Cold storage w/ retail sales the primary function of this facility is to support the wholesale/retail operation of a store, such as supermarket freezers, refrigerators, etc.
- (h) Counseling centers include marriage counseling centers, alcohol/drug rehabilitation /dependency centers, nutrition centers, diet centers, etc.

- (i) Part-time basis schools or dance studios should be charged as retail area 50 gpd /1000 gr.sq.ft. Full-time basis schools should be charged by the number of students.
- (j) Domestic waste is estimated at 50 gpd/1,000 square feet in addition to total process flow.
- (k) Bureau of Sanitation will determine if an industrial permit is needed for health spas. The first year flow is based on 650 gpd/1000 gr.sq.ft., and the Sanitation inspectors will redetermine the flow annually based on water bill from the previous year. The applicants are responsible for paying the difference of SFC.

Health club/spa includes lobby area, workout floors, aerobic rooms, swimming pools, Jacuzzi, sauna, locker rooms, showers, and restrooms. If a health club/spa has a gymnasium type of facility, this portion should be charged separately at the gymnasium SFC rate.

Gymnasiums include basketball court, volleyball court, and any other large open space with low occupancy density.

- (l) Lobby of retail includes lounges, holding rooms, or waiting area, etc.
- (m) Full service post offices include U.S. Postal Service, UPS, Federal Express, DHL, and etc.
- (n) The SGF for a college dormitory based on student capacity also includes the SGF for the dormitory cafeterias.
- (o) A bedroom is defined as an enclosed subdivision with 50 sq.ft. or more floor area in a residential building commonly used for sleeping purpose, and is partitioned off to form a habitable room.
- (p) The SGF for schools based on the student capacity, covers the following facilities:
  - 1) classrooms and lecture halls
  - 2) professors' offices
  - 3) administration offices
  - 4) laboratories for classes or research
  - 5) libraries
  - 6) bookstores
  - 7) student/professor lounges
  - 8) school cafeterias
  - 9) warehouses and storage areas
  - 10) auditoriums
  - 11) gymnasiums
  - 12) restrooms

It does not include water used by schools for swimming pools. When a school files an application for addition of any of the foregoing facilities, the student population will be reassessed and the total gpd for the new facility will be based on the number of students increased since the last SFC was paid or when the City implemented the SFC for the first time. The SFC for any school facility (ex. stadium, dormitory, etc.) not listed above, will be based on the designated SGF for that category.

- (q) The SFC for a TV or motion picture studio shall be the sum of SFC's for different facilities in the studio, based on the SGF for each facility. A studio may include one or more of the following facilities: audience viewing room, filming room, film processing, storage area, etc.
- (r) No independent tanning salons with shower were encountered during 1996 survey.
- (s) Alternative basis of charge for City's consideration. The prior square footage basis is also presented should the City decide to continue charging on that basis.

## IMPACT ON THE WATER SYSTEM

If the estimated water requirements for the proposed project can be served by existing water mains in the adjacent street(s), water service will be provided routinely in accordance with the Los Angeles Department of Water and Power's (LADWP) Rules and Regulations (available on-line at <a href="www.ladwp.com">www.ladwp.com</a> under Commercial/Customer Service/Water Services under the title, <a href="Rules Governing Water & Electric Service">Rules Governing Water & Electric Service</a>. If the estimated water requirements are greater than the available capacity of the existing distribution facilities, special arrangements must be made with the LADWP to enlarge the supply line(s). Supply main enlargement will cause short-term impacts on the environment due to construction activities.

In terms of the City's overall water supply condition, the water requirement for any project that is consistent with the City's General Plan has been taken into account in the planned growth in water demand. Together with local groundwater sources, the City operates the Los Angeles-Owens River Aqueduct and purchases water from the Metropolitan Water District of Southern California. These three sources, along with recycled water, will supply the City's water needs for many years to come.

Statewide drought conditions in the mid-1970s and late 1980s dramatically illustrated the need for water conservation in periods of water shortage. However, water should be conserved in Southern California even in years of normal climate because efficient use of water allows increased water storage for use in dry years as well as making water available for beneficial environmental uses. In addition, electrical energy is required to treat and deliver all water supplies to the City and the rest of Southern California. Conserving water contributes to statewide energy conservation efforts. Practicing water conservation also results in decreased customer operating costs.

## WATER CONSERVATION

LADWP assists residential, commercial, and industrial customers in their efforts to conserve water. Below is a list of some of the water conservation requirements in Los Angeles for new construction and when fixtures are replaced in existing buildings. Also included are further voluntary recommendations to save water.

1. High efficiency water closets, high efficiency urinals, water-saving showerheads, and low flow faucets must be installed in new constructions and may be retrofitted in existing buildings. The flow rates of new plumbing fixtures must comply with the most stringent of the following: Los Angeles City Ordinance No. 180822 (http://clkrep.lacity.org/onlinedocs/2009/09-0510 ord 180822.pdf), the 2014 Los Angeles Plumbing Code and the 2013 California Green Building Standards Code (CALGreen), the 2014 Los Angeles Green Building Code.

- 2. New installations of air conditioning systems that utilize evaporative cooling (i.e. employ cooling towers) shall operate at a minimum of 5.5 cycles of concentration. Single pass cooling systems are prohibited in most cases.
- 3. Energy Star rated dishwashers must be installed for new construction and when replacing existing units in most cases. Water conserving clothes washers are available from many manufacturers and should be selected. Water saved by these appliances also saves energy in that the water used by these appliances is typically heated.
- 4. The design of the hot water plumbing system should be such that it minimizes the delivery time for hot water. This may be accomplished through the use of a demand type or a timed and temperature control type hot water recirculation system, point-of-use water heaters, and/or a parallel piping system which all help reduce the pipe length between the fixture and the point of supply of the hot water.
- 5. Landscape areas utilize a significant volume of the water delivered by LADWP and represent a great potential for water conservation. The State adopted landscape regulations for landscape areas over 2,500 square feet that apply for new constructions and when existing landscapes are renovated. These regulations are addressed by Los Angeles City Ordinance No. 170978 and the City of Los Angeles Irrigation Guidelines (<a href="http://cityplanning.lacity.org/Forms">http://cityplanning.lacity.org/Forms</a> Procedures/2405.pdf) and require submittal of a landscape document package prepared and signed by a licensed professional architect, engineer or contractor to the Department of Building and Safety for review. Please contact the Los Angeles City Planning Department for further information.
- 6. The landscape irrigation system should be designed, installed, and tested to provide uniform irrigation coverage for each zone. Sprinkler head patterns must be adjusted to minimize over spray onto walkways and streets. Each zone (sprinkler valve) should water plants having similar watering needs (do not mix shrubs, flowers and turf in the same watering zone).
- 7. Automatic irrigation timers should be set to irrigate landscapes during early morning or late evening hours to reduce water losses from evaporation. Adjust irrigation run times for all zones seasonally, reducing watering times and frequency in the cooler months (fall, winter, spring). Adjust sprinkler timer run times to avoid water runoff, especially when irrigating sloped property.
- 8. The City of Los Angeles has enacted legislation to address the water supply shortages caused by the recent statewide drought. Los Angeles City Ordinance No. 181288 (<a href="http://clkrep.lacity.org/onlinedocs/2009/09-0369-s9">http://clkrep.lacity.org/onlinedocs/2009/09-0369-s9</a> ord 181288.pdf) also known as the Emergency Water Conservation Plan imposes phased water rationing during drought conditions and imposes penalties

for users that do not comply. When water rationing is in effect, landscape irrigation is prohibited between the hours of 9:00 AM and 4:00 PM. Specific watering days and maximum irrigation rates are also defined in this ordinance. When water rationing is in effect, it can be extremely difficult to establish certain types of new landscapes. The landscape architect must take this into consideration in selecting the plant type and the landscape design.

- Selection of drought-tolerant, low water consuming plant varieties should be used to reduce irrigation water consumption. For a list of plant varieties with their irrigation requirements, refer to the State Guide for Landscape Irrigation which can be found at, (http://www.water.ca.gov/pubs/planning/guide to estimating irrigation water ne eds of landscape plantings in ca/wucols.pdf), or consult a landscape architect.
- 10. Graywater and other alternate water source systems are now addressed in the California Plumbing Code for residential and non-residential buildings. Graywater is semi clean wastewater generated and collected on-site by the building's plumbing system from showers, bathtubs, bathroom sinks and clothes washers but does not include wastewater from toilets, dishwashers or kitchen sinks. The collected graywater is then reused on-site for various beneficial uses. The Plumbing Code addresses the proper collection, handling, treatment and use of Alternate Water Sources.

The use of graywater reduces the demand for potable water. Please see the attached link for information regarding the installation graywater systems in Los Angeles for residential properties: <a href="http://www.ladwp.com">http://www.ladwp.com</a> under Residential/Go Green.

11. The City continues to expand its purple pipe distribution system of recycled water. The availability of recycled water should be investigated as a source to irrigate large landscaped areas and for toilet and urinal flushing.

LADWP is always looking for means to assist its customers to use water resources more efficiently and welcomes the opportunity to work with new developments to identify water conservation opportunities. Some water conservation measures are enclosed. The LADWP website contains a current list of the available rebates and incentive programs, including the performance based Custom Water Conservation Technical Assistance Program (TAP). Mr. Mark Gentili is the Water Conservation Program Manager and can be reached at (213) 367-8556 or by e-mail at <a href="Mark.Gentili@ladwp.com">Mark.Gentili@ladwp.com</a>. See the following link for LADWP water conservation rebate information on our website:

https://www.ladwp.com/ladwp/faces/ladwp/aboutus/a-water/a-w-conservation

## **COMMERCIAL ENERGY EFFICIENCY MEASURES**

During the design process, the applicant should consult with the Los Angeles Department of Water and Power, Conservation and Sustainability Programs Section,

regarding possible energy efficiency measures. The Conservation and Sustainability Programs Section encourages customers to consider design alternatives and information to maximize the efficiency of the building envelope, heating, ventilation, and air conditioning, building lighting, water heating, and building mechanical systems. The applicant shall incorporate measures to meet or, if possible, exceed minimum energy efficiency standards for: (1) Title 24, Part 6 of the California Code of Regulations (Title 24); (2) California Green Building Standards Code (CALGreen); (3) Los Angeles Green Building Code. In addition to energy efficiency technical assistance, the LADWP may offer financial incentives for energy designs that exceed minimum energy efficiency standards.

- 1. Built-in appliances, refrigerators, and space-conditioning equipment should exceed the minimum efficiency levels mandated in the Title 24.
- 2. Install high-efficiency air conditioning controlled by a computerized energy-management system in the office and retail spaces which provides the following:
  - A variable air-volume system which results in minimum energy consumption and avoids hot water energy consumption for terminal reheat:
  - A 100-percent outdoor air-economizer cycle to obtain free cooling in appropriate climate zones during dry climatic periods;
  - Sequentially staged operation of air-conditioning equipment in accordance with building demands; and
  - The isolation of air conditioning to any selected floor or floors.
- 3. Consider the applicability of the use of thermal energy storage to handle cooling loads.
- 4. Cascade ventilation air from high-priority areas before being exhausted, thereby decreasing the volume of ventilation air required. For example, air could be cascaded from occupied space to corridors and then to mechanical spaces before being exhausted.
- 5. Recycle lighting system heat for space heating during cool weather. Exhaust lighting-system heat from the buildings, via ceiling plenums, to reduce cooling loads in warm weather.
- 6. Install low and medium static-pressure terminal units and ductwork to reduce energy consumption by air-distribution systems.
- 7. Ensure that buildings are well sealed to prevent outside air from infiltrating and increasing interior space-conditioning loads. Where applicable, design building

- entrances with vestibules to restrict infiltration of unconditioned air and exhausting of conditioned air.
- 8. Building commissioning should be completed prior to issuance of the certificate of occupancy to verify that the building systems components meet the project requirements.
- 9. Finish exterior walls with light-colored materials and high-emissivity characteristics to reduce cooling loads. Finish interior walls with light-colored materials to reflect more light and, thus, increase lighting efficiency.
- 10. Use a white reflective material for roofing meeting California standards for reflectivity and emissivity to reject heat. The Los Angeles Municipal Code now mandates cool roof materials for all new and complete replacement roofs installed in the City of Los Angeles.
- 11. Install thermal insulation in walls and ceilings, which exceeds requirements established by Title 24.
- 12. Design window systems to reduce thermal gain and loss, thus, reducing cooling loads during warm weather and heating loads during cool weather.
- 13. Install heat-rejecting window treatments, such as films, blinds, draperies, or others on appropriate exposures.
- 14. Install LED lamps or fixtures, which give the highest light output per watt of electricity consumed, for all street and parking lot lighting to reduce electricity consumption. Install an astronomical time switch control to meet your projects design needs.
- 15. Install automatic daylighting controls and dimmable electronic ballasts, to light fixtures near windows and skylights, to maximize the use of natural daylight available and reduce artificial lighting load.
- 16. Install occupant-controlled thermostats to permit individual adjustment of heating, and cooling to avoid unnecessary energy consumption.
- 17. Install a lighting control system to automatically control interior and exterior lights in public areas and will also energize emergency egress lights when an emergency occurs.
- 18. Control mechanical systems (HVAC and lighting) in the building with timing systems to prevent accidental or inappropriate conditioning or lighting of unoccupied space.

- 19. Incorporate windowless walls or passive solar inset of windows into the project for appropriate exposures.
- 20. Design project to focus pedestrian activity within sheltered outdoor areas.
- 21. Install individual occupant sensors indoors, where appropriate, to automatically turn lights off when an area is vacated.
- 22. Install the manufacturers recommended lamp and ballast combination for all fluorescent light fixtures to provide the most efficient light output. Use reflectors to direct maximum levels of light to work surfaces.

For additional information concerning these conservation measures, please contact Ms. Lucia Alvelais, Utility Services Manager, at (213) 367-4939. Also, please visit the Los Angeles Department of Building and Safety's website for information on CALGreen and the Los Angeles Green Building Code (http://ladbs.org/LADBSWeb/green-bldg.jsf). Additional water and energy code compliance tips as well as various useful Green Building links are available on the LADWP website at the following location: http://www.ladwp.com under Commercial/Go Green.

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