Appendix V

Water Utility Report

700 S. Flower Street, Suite 2100 Los Angeles, CA 90017 213.418.0201 kpff.com

OUR LADY OF MT. LEBANON PROJECT
UTILITY INFRASTRUCTURE TECHNICAL REPORT: WATER
JANUARY 21, 2021

PREPARED BY:

KPFF Consulting Engineers
700 S. Flower Street, Suite 2100
Los Angeles, CA 90017
(213) 418-0201

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1. INTRODUCTION

1.1. PROJECT DESCRIPTION

The Project Site is located at 331-333 S. San Vicente Boulevard and 8531-8555 W. Burton Way within the Wilshire Community Plan area of the City of Los Angeles (City). The Our Lady of Mt. Lebanon Project (Project) includes (1) the development of a 19-story, multi-family residential building with 153 apartment units (including 17 Very Low Income units) and a maximum height of 225 feet, (2) the deconstruction, reassembly, rehabilitation and limited alteration of the existing cathedral of Our Lady of Mt. Lebanon–St. Peter Maronite Catholic Cathedral, with a resulting floor area of approximately 7,790 square feet, and (3) the removal of three existing ancillary church buildings, including the parish rectory, a building with offices and meeting rooms and a social hall, with an aggregate floor area of 12,370 square feet, and their replacement with a new three-story building with approximately 23,649 square feet of ancillary church uses, including offices, meeting rooms and a multi-purpose room.

As part of the residential component of the Project, approximately 16,800 square feet of open space would be provided onsite in accordance with the requirements of the Los Angeles Municipal Code, including approximately 9,200 square feet of common open space and 7,600 square feet of private open space. The Project includes a total of 397 vehicle parking spaces, including 252 residential parking spaces and 145 church parking spaces, within a five-level subterranean parking structure.

To accommodate excavation and construction activities for the subterranean parking structure, the existing cathedral (other than the front façade, which would remain on the Project Site) would be deconstructed and temporarily relocated offsite. Upon completion of the subterranean parking structure and the partial construction of the new residential and church buildings, the cathedral would be reassembled and rehabilitated in its approximate original location.

Overall, the Project would result in a net increase of approximately 160,862 square feet of floor area on the Project Site. Upon completion of the Project, the total floor area of the buildings on the Project Site would be approximately 180,080 square feet, with a floor area ratio (FAR) of 4.99:1.

1.2. SCOPE OF WORK

To support the Draft Environmental Impact Report for the Project, the purpose of this report is to analyze the potential demand and impacts of the Project with regard to water supply and water distribution infrastructure.

2. REGULATORY FRAMEWORK

2.1. WATER

The City of Los Angeles Department of Water and Power (LADWP) is responsible for providing water supply to the City while complying with Local, State, and Federal regulations.

Below are the State and Regional water supply regulations:

- California Code of Regulations (CCR), Title 20, Chapter 4, Article 4, Section 1605 establishes water efficiency standards for all new plumbing fixtures and Section 1608 prohibits the sale of fixtures that do not comply with the regulations.

- 2013 California Green Building Standards Code, CCR, Title 24, Part 11, adopted on January 1, 2014 (CALGreen), requires a water use reduction of 20% above the baseline cited in the CALGreen code book. The code applies to family homes, state buildings, health facilities, and commercial buildings.

- California Urban Water Management Planning Act of 1984 requires water suppliers to adopt an Urban Water Management Plan (UWMP).

- Metropolitan Water District (MWD) official reports and policies as outlined in its Regional UWMP, Water Surplus and Drought Management Plan, Water Supply Allocation Plan, and Integrated Resources Plan.

- LADWP's 2015 UWMP outlines the City's long-term water resources management strategy. The 2015 UWMP was approved by the LADWP Board of Water and Power Commissioners on June 7, 2016.

- Senate Bill (SB) 610 and SB 221, approved on October 9, 2001, require land use agencies to perform a detailed analysis of available water supply when approving large developments. Historically, public water suppliers (PWS) simply provided a "will serve" letter to developers. SB 610, Public Resources Code (PRC) and Section 10910-10915 of the State Water Code requires lead agencies to request a Water Supply Assessment (WSA) from the local water purveyor prior to project approval. If the projected water demand associated with a proposed development is included in the most recent UWMP, the development is considered to have sufficient water supply per California Water Code Section 10910, and a WSA is not required. All projects that meet any of the following criteria in Section 10912 require a WSA:

    1) A proposed residential development of more than 500 dwelling units.

2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.
3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.
4) A proposed hotel or motel, or both, having more than 500 rooms.
5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.
6) A mixed use project that falls in one or more of the projects specified above.
7) A project that would demand water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

3. EXISTING CONDITION

3.1. WATER SERVICE

3.1.1. DOMESTIC

The existing site is currently occupied by four buildings; the main building is the cathedral and the other buildings are the parish rectory, a social hall and a building with offices and meeting rooms. Based on City Substructure Map 135-173-D, there is an existing 8" water main in S. San Vicente Boulevard, an existing 6" water main in Holt Ave and an existing 12" water main in W. Burton Way. LADWP water facility map 138-171 indicates that the 656 S. San Vicente Boulevard lot is served by two 1.5" existing water services off of S. San Vicente Boulevard.

The domestic water generation estimate has been prepared based on the City of LA Bureau of Sanitation (LASAN) sewerage generation factors, and is summarized in Table 1 below.

Table 1 – Estimated Existing Water Generation

Land Use	Units	Generation Rate [a]	Total Water Generation (gpd)
Existing			
Church[b]	288 seats	3gpd/seat	864
Parish Rectory (Residential: 3 BD.)	1 unit	230gpd/unit	230
Social Hall (Banquet Room/Ballroom)	5,426 sf	350 /1000 gpd/sf	1,899
Offices/Conference Rooms [c]	4,424 sf	120 /1000 gpd/sf	531
		Subtotal Existing	**3,524**[d]

[a] *This analysis is based on sewage generation rates provided LASAN (2012)*
[b] *Cathedral is considered as "Church" for water generation purposes.*
[c] *Offices and Meeting Rooms are considered as "Conference Room of Office Bldg." for water generation purposes.*
[d] *Please note the generation rate number is a conservative assumption that assumes all uses on the Site will occur at the same time. The facilities, however, will rarely be used concurrently.*

3.1.2. FIRE

As recorded in Navigate LA, the closest existing public fire hydrant is located along the project frontage approximately mid-block on S. San Vicente Boulevard. Approximately 90 feet west of the project site there is another hydrant located at the northwest corner of the W. Burton Way and Holt Avenue intersection. There is another hydrant on the south side of W. Burton Way 35 feet west of the centerline of W. Burton Way and Holt Avenue, and another on the south side of W. Burton 57 feet west of the centerline of W. Burton Way and Le Doux Road.

4. SIGNIFICANCE THRESHOLDS

4.1. WATER

The City of Los Angeles considers the questions listed in Appendix G to the State of California's California Environmental Quality Act (CEQA) Guidelines (CEQA Guidelines) as significant thresholds for CEQA compliance regarding impact on water. These questions are as follows:

Would the project:

- Require or result in the relocation or construction of new or expanded water. . . facilities, the construction or relocation of which would cause significant environmental effects?
- Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

5. METHODOLOGY

5.1. WATER

The methodology for determining the significance of a project as it relates to a project's impact on water supply and distribution infrastructure involves a review of the project's environmental setting, project impacts, cumulative impacts, and mitigation measures. The following has been considered as part of the determination for this Project:

Environmental Setting

- Description of major water infrastructure serving the Project Site, including the type of facilities, location and sizes, and any planned improvements;
- Description of the water conditions for the project area and known improvement plans.

Project Impacts

- Evaluate the Project's water demand, taking into account design or operational features that would reduce or offset water demand.
- Determine what improvements would be needed, if any, to adequately serve the Project;
- Describe the degree to which presently scheduled off-site improvements offset impacts; and
- Describe any water conservation measures included in the proposed Project, particularly those that are beyond requirements of present regulations, and factor their impact on water use into the Project demand, to the extent possible.

This report analyzes the impacts of the Project on the existing public water supply and infrastructure by comparing the estimated Project demand with the calculated available capacity of the existing facilities.

The existing and proposed water demand is based on the 2012 LASAN Sewer Generation Rates table.

LADWP performed a fire service pressure flow test to determine if available water conveyance exists for future development. LADWP's approach consists of data ranging from available static pressure (meaning how much pressure is available at the source before applying the project's demand) to the available pressure at the maximum demand needed for a project. Based on the results, LADWP determines whether or not they can meet the project needs based on existing infrastructure. Refer to Exhibit 1 for two Fire Service Pressure Flow Reports (SARs) prepared by LADWP.

LADWP also performed a hydraulic analysis of their water system to determine if adequate fire flow is available to the fire hydrants surrounding the Project Site. LADWP's approach consists of analyzing their water system model in the vicinity of the Project Site. Based on the results, LADWP determines whether they can meet the Project's fire hydrant flow needs with the existing infrastructure. See Exhibit 2 the Information of Fire Flow Availability Request (IFFAR) submitted by KPFF to LADWP and the information provided by LADWP in response.

6. PROJECT IMPACTS

6.1. CONSTRUCTION

6.1.1. WATER

Water demand for construction of the Project would be required for dust control, cleaning of equipment, excavation/export, removal and re-compaction, and other construction activities. Based on a review of construction projects of similar size, site area and duration, a conservative estimate of construction water demand would be approximately 1,000-2,000 gallons per day (gpd). This number was generated based on information provided by a licensed contractor. The existing water demand at the Project Site is approximately 3,524 gpd. The construction water demand would therefore be substantially less than the existing water demand. Furthermore, the estimated construction-period demand is significantly less than the Project's estimated operational demand, which is described below, and can be accommodated by the existing infrastructure. Therefore, the potential impacts on water use and associated infrastructure due to construction activity will be less than significant.

The Project will require the construction of new on-site water distribution lines to serve the new buildings. Construction impacts associated with the installation of water distribution lines would primarily involve trenching in order to place the lines below the surface. Installation of new water infrastructure will be limited to on-site water distribution and minor off-site work associated with connections to the public main. Prior to ground disturbance, Project contractors would coordinate with LADWP to identify the locations and depth of all lines. Furthermore, LADWP would be notified in advance of proposed ground disturbance activities to avoid water lines and disruption of water service.

As discussed further below, the Project would require installation of approximately 156 linear feet of new 12-inch pipe on Sherbourne Drive across Burton Way , and such work would result in temporary construction-related impacts to accommodate trenching. No permanent impacts are expected. In fact, improved infrastructure and water supply capacity would be considered a long-term benefit. Such construction would be nominal, its implementation would be limited to aforementioned trenching, and would not affect the Project area after construction is completed.

Therefore, the construction of the Project would not require or result in the construction of new water treatment facilities, or expansion of existing facilities, the construction of which would cause significant environmental effects. Therefore, Project impacts on water and water infrastructure associated with construction activities would be less than significant.

6.2. OPERATION

6.2.1. WATER

6.2.1.1. WATER SUPPLY

This Section of the report discusses whether the Project has sufficient water supplies available to provide adequate fire flow for the Project and other reasonably foreseeable future development during normal, dry and multiple dry years. In order to determine whether LADWP's existing infrastructure can meet the anticipated water demand of the Project with respect to fire flow availability and fire flow water pressure, KPFF requested and received from LADWP the two SARs (see Exhibit 1) and responses to the IFFAR (see Exhibit 2). The results of the two SARs and the responses to the IFFAR are summarized in Sections 6.2.1.2 and 6.2.1.3, below.

With regard to domestic water supply, the California Urban Water Management Planning Act requires that every urban water supplier prepare and adopt an Urban Water Management Plan (UWMP) every five years. LADWP's 2015 UWMP provides a complete analysis of the water supplies and demands and projects a sustainable water supply for the City for the next 25 years. LADWP considered the UWMP in determining whether to approve the SARs. This reflects that the Project's water demand falls within the LADWP's 2015 UWMP's projected increase in citywide water demands while anticipating normal, dry and multiple dry-year water conditions occurring at the same time. We understand this issue will be discussed in more detail in the Draft EIR for the Project.

6.2.1.2. WATER DEMAND FOR FIRE FLOW

Based on fire flow standards set forth in Section 57.507.3 of the LAMC, the inclusion of a high-rise building as part of the Project, input received from the Los Angeles Fire Department (LAFD) through the LAFD Response letter to the Notice of Preparation of an Environmental Impact, dated September 23, 2020 and follow-up email correspondence with the LAFD team, the required fire flow for the Project will be set at 9,000 gallons per minute (gpm) from six fire hydrants flowing simultaneously with a minimum residual pressure of 20 pounds per square inch (psi). This translates to a required flow of 1,500 gpm from six hydrants close to the site and accessible for fighting purposes, all flowing simultaneously. An IFFAR was submitted to LADWP to confirm adequate fire flow pressure for the Project from the existing six hydrants Site (F-35685, F-34688, F-42069, F-42067, F-42389, and F-34694). As set forth in Exhibit 2, LADWP indicated in its response to the IFFAR that the existing public water system cannot supply enough flow to reach the required 9,000 gpm flow from six hydrants flowing simultaneously with a residual pressure greater than 20 psi. LADWP has recommended installation of a new water main to facilitate additional fire flow and water pressure to the Project Site. Specifically, LADWP recommends installing a new water main consisting 156 linear feet of new 12-inch pipe on Sherbourne Drive across Burton Way to connect the two existing Sherbourne Drive systems respectively located on the north and south sides of Burton Way to provide the required flow of 9,000 gpm to the Project. Refer to Exhibit 3 for a diagram provided by LADWP showing the location of the required main improvements and the Water Facilities Charges letter issued by LADWP on January 7, 2021. As shown by the IFFAR, the Project Site currently does not have adequate fire flow available to demonstrate compliance with Section 57.507.3 of the LAMC and the LAFD site specific requirements.

Furthermore, LAMC Section 57.513, Supplemental Fire Protection, states that:

> Where the Chief determines that any or all of the supplemental fire protection equipment or systems described in this section may be substituted in lieu of the requirements of this chapter with respect to any facility, structure, group of structures or premises, the person owning or having control thereof shall either conform to the requirements of this chapter or shall install such supplemental equipment or systems. Where the Chief determines that any or all of such equipment or systems is necessary in addition to the requirements of this chapter as to any facility, structure, group of structures or premises, the owner thereof shall install such required equipment or systems.

The Project will include a fire sprinkler suppression system, which will be subject to fire department review and approval of the design and permitting of the Project. As noted, two requests for SARs were submitted to LADWP in order to make sure the existing infrastructure could meet the demands of the project. The two SARs prepared by LADWP are attached in Exhibit 1. The first SAR is for the proposed 6-inch fire and 6-inch domestic water service on Holt Avenue. Those SAR results show a static pressure of 93 pounds per square inch and that a flow of up to 1,400 gpm can be delivered to the Project Site with a residual pressure of 79 pounds per square inch, which exceeds the 20 pounds per square inch requirement for the surrounding public hydrants. The second SAR is for the proposed 6-inch fire and 2-inch domestic service on S. San Vicente Boulevard. Those SAR results show a static pressure of 95 pounds per square inch and that a flow of up to 1,400 gpm can be delivered to the Project Site with a residual pressure of 86 pounds per square inch, which exceeds the 20 pounds per square inch requirement for the surrounding public hydrants. As shown in the two SARs, the IFFAR and LADWP's response thereto, and through compliance with LAFD and LADWP requirements, LADWP has indicated that approximately 156 linear feet of 12-inch water main need to be installed to accommodate the Project water and fire flow requirements. With these improvements, there will be available water capacity and pressure to serve the Project.

6.2.1.3. DOMESTIC WATER FLOW AND WATER DEMAND

With respect to water consumption, estimates have been prepared based on 100% of the City's LASAN sewerage generation factors, as shown in Table 3 below. The Project includes the connection of the residential part of the Project to the existing 6-inch main in Holt Avenue with a new combo service consisting of a 6-inch fire and a 6-inch domestic service. The proposed church uses will be connected to the existing 8-inch main in S. San Vicente Boulevard with a new combo service consisting of a 6-inch fire and a 2-inch domestic service. The SARs confirm that both combo services, each of which will have one connection to the corresponding main and each of which will be split to serve both fire and domestic, were approved by LADWP. Refer to Exhibit 1 for the approved SARs.

Table 2 – Estimated Water Generation			
Land Use	**Units**	**Generation Rate (a)**	**Total Water Generation (gpd)**
Existing			
Cathedral[k]	288 seats	3 gpd/seat	864
Parish Rectory (Residential: 3 Bedrooms)	1 unit	230gpd/unit	230
Social Hall (Banquet Room/Ballroom)	5,426 sf	350/1000 gpd/sf	1,899
Office/Meeting Rooms (Conference Rooms) [l]	4,424 sf	120/1000 gpd/sf	531
		Subtotal Existing	**3,524**
Proposed			
Residential: Apt – Studio	13 du	75 gpd/du	975
Residential: Apt – 1 BD	80 du	110 gpd/du	8,800
Residential: Apt – 2 BD	60 du	150 gpd/du	9,000
Banquet Room/Ballroom[b]	7,285 sf	350/1000 gpd/sf	2,550
Lobby[c]	1,110 sf	50/1,000 gpd/sf	56
Restaurant: Take Out[d]	1,790 sf	300/1,000 gpd/sf	537
Office Building[e]	210 sf	120/1,000 gpd/sf	25
Swimming Pool	–	13,296 gal	13,296
Swimming Pool[f]	–	2,094 gal	2,094
Health Club / Spa[g]	676 sf	650/1,000 gpd/ sf	439
Lounge[h]	2,284 sf	50/1,000 gpd/sf	114
Conference Rooms[i]	6,730 sf	120/1,000 gpd/sf	808
Library[j]	718 sf	50/1,000 gpd/sf	36
Cathedral[k]	306 seats	3 gpd/seat	918
		Subtotal Proposed	**39,648**
Summary			
		Subtotal Proposed	**39,648**
		Subtotal Existing	**-3,524**
		Net Increase	**36,124**

du = dwelling units
BD = bedrooms
gpd = gallons per day
sf = square feet
All totals have been rounded and may not sum due to rounding.
(a) This analysis is based on sewage generation rates provided LASAN (2012).
(b) Multi-Purpose Room is considered as "Banquet Room / Ballroom" for water generation purposes.
(c) Lobby and church lobby are considered as "Lobby of Retail Area" for water generation purposes.
(d) Food Prep Kitchen is referred to as "Restaurant: Take Out". Food Prep Kitchen proposed by the Project is not considered a restaurant and would support Multi-Purpose Room and/or used for events following church services.
(e) Lease office is considered as "Office Building" for water generation purposes.
(f) Jacuzzi considered as "Swimming Pool" for water generation purposes.
(g) Fitness room considered as "Health Club / Spa" for water generation purposes.
(h) Vestibule, cry room, reception waiting area and recreational room is considered as "Lounge" for water generation purposes.
(i) Church office and meeting rooms are considered as "Conference Rooms" for water generation purposes
(j) Library/Activity Room is referred to as "Library". Proposed library would not be open to the public and would be connected to the church lobby.
(k) *Cathedral is considered as "Church" for water generation purposes.*
(l) *Offices and Meeting Rooms are considered as "Conference Room of Office Bldg." for water generation purposes.*

7. LEVEL OF SIGNIFICANCE

Based on the analysis contained in this report, the Project would require the installation of a new 156 linear foot 12-inch water main crossing Burton Way to obtain the required flow and pressure. By implementing these water main improvements, LADWP indicated that the Project would have sufficient water supplies available to provide adequate fire flow for the Project and reasonably foreseeable future development during normal, dry and multiple dry years. Impacts would be less than significant.

EXHIBIT 1

May 30, 2018

Map No. 134-171

Mr. Rickard Severinsson
KPFF
700 South Flower Street, Suite 2100
Los Angeles, California 90017

Dear Mr. Severinsson:

Subject: Water Availability - Will Serve
333 South San Vicente Boulevard – Mount Lebanon
APN: 4334-009-161, Tract 7616, Lot 235

This is in reply to your request regarding water availability for the above-mentioned location. This property can be supplied with water from the municipal system subject to the Water System rules of the Los Angeles Department of Water and Power (LADWP). It is also subject to all conditions set by LADWP.

Should you require additional information, please contact Ms. Cynthia Taylor at (213) 367-1306. Correspondence may be addressed to:

LADWP
Water Business Arrangements
Attention: Ms. Cynthia Taylor
P.O. Box 51111, Room 1425
Los Angeles, California 90051-5700

Sincerely,

Hugo A. Torres
Manager-Business Arrangements
Water Distribution Engineering

CT:ak
c: Ms. Cynthia Taylor

City of Los Angeles

Los Angeles Department of Water and Power - Water System

SAR NUMBER **77111**

Fire Service Pressure Flow Report

SERVICE NUMBER **631127**

For: **333 S SAN VICENTE BLVD** Approved Date: **5-29-2019**

Proposed Service **6 INCH** off of the

6 inch main in **HOLT AVE** on the **EAST** side approximately

110 feet **NORTH** of **NORTH** of **BURTON WAY** The System maximum pressure is

100 psi based on street curb elevation of **157** feet above sea level at this location.

The distance from the DWP street main to the property line is **45** feet

System maximum pressure should be used only for determining class of piping and fittings.

Residual Flow/Pressure Table for water system street main at this location

Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)
0	93				
335	92				
490	91				
610	90				
710	89				
805	88				
885	87				
965	86				
1035	85				
1105	84				
1165	83				
1230	82				
1290	81				
1345	80				
1400	79				

Meter Assembly Capacities

Domestic Meters	
1 inch =	56 gpm
1-1/2 inch =	96 gpm
2 inch =	160 gpm
3 inch =	220 gpm
4 inch =	400 gpm
6 inch =	700 gpm
8 inch =	1500 gpm
10 inch =	2500 gpm

Fire Service	
2 inch =	250 gpm
4 inch =	600 gpm
6 inch =	1400 gpm
8 inch =	2500 gpm
10 inch =	5000 gpm

FM Services	
8 inch =	2500 gpm
10 inch =	5000 gpm

These values are subject to change due to changes in system facilities or demands.

Notes: With 700 gpm simultaneous flow from 6" domestic service

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 05-29-19. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

For additional information contact the Water Distribution Services Section **WESTERN (213) 367-1225**

ELIA SUN	**ELIA SUN**	**138-171**
Prepared by	**Approved by**	**Water Service Map**

City of Los Angeles

Los Angeles Department of Water and Power - Water System

SAR NUMBER **77110**

Fire Service Pressure Flow Report

SERVICE NUMBER **631126**

For: **333 S SAN VICENTE BLVD** Approved Date: **5-29-2019**

Proposed Service **6 INCH** off of the

8 inch main in **SAN VICENTE BLVD** on the **WEST** side approximately

240 feet **NORTH** of **NORTH** of **BURTON WAY** The System maximum pressure is

100 psi based on street curb elevation of **156** feet above sea level at this location.

The distance from the DWP street main to the property line is **5** feet

System maximum pressure should be used only for determining class of piping and fittings.

Residual Flow/Pressure Table for water system street main at this location

Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)	Flow (gpm)	Press. (psi)
0	95				
425	94				
620	93				
775	92				
905	91				
1020	90				
1125	89				
1220	88				
1315	87				
1400	86				

These values are subject to change due to changes in system facilities or demands.

Notes: With 160 gpm simultaneous flow from 2" domestic service

Meter Assembly Capacities

Domestic Meters	
1 inch =	56 gpm
1-1/2 inch =	96 gpm
2 inch =	160 gpm
3 inch =	220 gpm
4 inch =	400 gpm
6 inch =	700 gpm
8 inch =	1500 gpm
10 inch =	2500 gpm

Fire Service	
2 inch =	250 gpm
4 inch =	600 gpm
6 inch =	1400 gpm
8 inch =	2500 gpm
10 inch =	5000 gpm

FM Services	
8 inch =	2500 gpm
10 inch =	5000 gpm

This information will be sent to the Department of Building and Safety for plan checking.

This SAR is valid for one year from 05-29-19. Once the SAR expires, the applicant needs to re-apply and pay applicable processing fee.

For additional information contact the Water Distribution Services Section **WESTERN (213) 367-1225**

ELIA SUN	**ELIA SUN**	**138-171**
Prepared by	**Approved by**	**Water Service Map**

EXHIBIT 2

City of Los Angeles
Los Angeles Department of Water and Power - Water System

INFORMATION OF FIRE FLOW AVAILABILITY

LAFD Fire Flow Requirement: 6000-9000 GPM - (from 4-6 Hydrants)

Water Service Map No.: 138-171

LAFD Signature:

Date Signed:

Applicant: Astrid Theeuwes

Company Name: KPFF Consulting Engineers

Address: 700 S Flower Street, Suite 2100, Los Angeles 90017

Telephone: (213) 418-0201

Email Address: astrid.theeuwes@kpff.com

	F-34694	F-42389	F-42067
Location:	The west side of South San Vicente Blvd, 225 feet north of the centerline of South san vicente and Burton Way.	The north side of Burton Way 55 feet west of the centerline of Burton Way and Holt Avenue.	The north side of Burton Way 45 feet west of the centerline of Burton Way and Sherbourne Dr.
Distance from Neareast Pipe Location (feet):	22'	25'	17'
Hydrant Size:	2 1/2 X4D	2 1/2 X4D	2 1/2 X4D
Water Main Size (in):	8	6	8
Static Pressure (psi):	100/86	100/86	99/86
Residual Pressure (psi):	74	74	74
Flow at 20 psi (gpm):	1500	1500	0

NOTE: Data obtained from hydraulic analysis using peak hour.

Remarks: ECMR No.

This is the first of 2 requests for a new project located at 333 South San Vicente Blvd, Los Angeles, CA 90048.

Maximum allowable 4 fire hydrants flowing 1500 gpm each for combined 6,000 gpm.

F-34694, F-42389, F-42069, F-34688

Water infrastructure improvements required to achieve any larger fire flow demand.

Water Purveyor: **Los Angeles Department of Water & Power** *Date:* 12/10/2020

Signtature: Mark Patterson *Title:* Civil Engineering Associate

$255.00

Requests must be made by submitting this completed application, along with a ~~$230.00~~ check payable to:

"Los Angeles Department of Water and Power", and mailed to:

Los Angeles Department of Water and Power

Distribution Engineering Section - Water

Attn: Business Arrangements

P.O. Box 51111 - Room 1425

Los Angeles, CA 90051-5700

*** If you have any questions, please contact us at (213) 367-2130 or visit our web site at http://www.ladwp.com.**

City of Los Angeles
Los Angeles Department of Water and Power - Water System

INFORMATION OF FIRE FLOW AVAILABILITY

Water Service Map No.: 138-171

LAFD Fire Flow Requirement: 6000-9000 GPM - (from 4-6 Hydrants)

LAFD Signature:

Date Signed:

Applicant: Astrid Theeuwes

Company Name: KPFF Consulting Engineers

Address: 700 S Flower Street, Suite 2100, Los Angeles 90017

Telephone: (213) 418-0201

Email Address: astrid.theeuwes@kpff.com

	F-34685	F-42069	F-34688
Location:	The south side of W 3rd. St 45 feet west of the centerline of Sherbourne Dr and W 3rd St.	The west side of S San Vicente Blvd 57 feet west of the centerline of S. San Vicente Blvd. and W 3rd S.	The west side of Holt Ave 47 feet south of the centerline of Holt Ave and W 3rd St.
Distance from Neareast Pipe Location (feet):	17'	22'	15'
Hydrant Size:	2 1/2 X4D	2 1/2 X4D	2 1/2 X4D
Water Main Size (in):	6	8	6
Static Pressure (psi):	99/84	99/85	99/85
Residual Pressure (psi):	72	72	72
Flow at 20 psi (gpm):	0	1500	1500

NOTE: Data obtained from hydraulic analysis using peak hour.

Remarks: ECMR No.

This is the second of 2 requests for a new project located at 333 South San Vicente Blvd, Los Angeles, CA 90048.

Maximum allowable 4 fire hydrants flowing 1500 gpm each for combined 6,000 gpm.

F-34694, F-42389, F-42069, F-34688

Water infrastructure improvements required to achieve any larger fire flow demand.

Water Purveyor: **Los Angeles Department of Water & Power** *Date:* 12/10/2020

Signtature: Mark Patterson *Title:* Civil Engineering Associate

$255.00

Requests must be made by submitting this completed application, along with a ~~$230.00~~ check payable to:

"Los Angeles Department of Water and Power", and mailed to:

Los Angeles Department of Water and Power

Distribution Engineering Section - Water

Attn: Business Arrangements

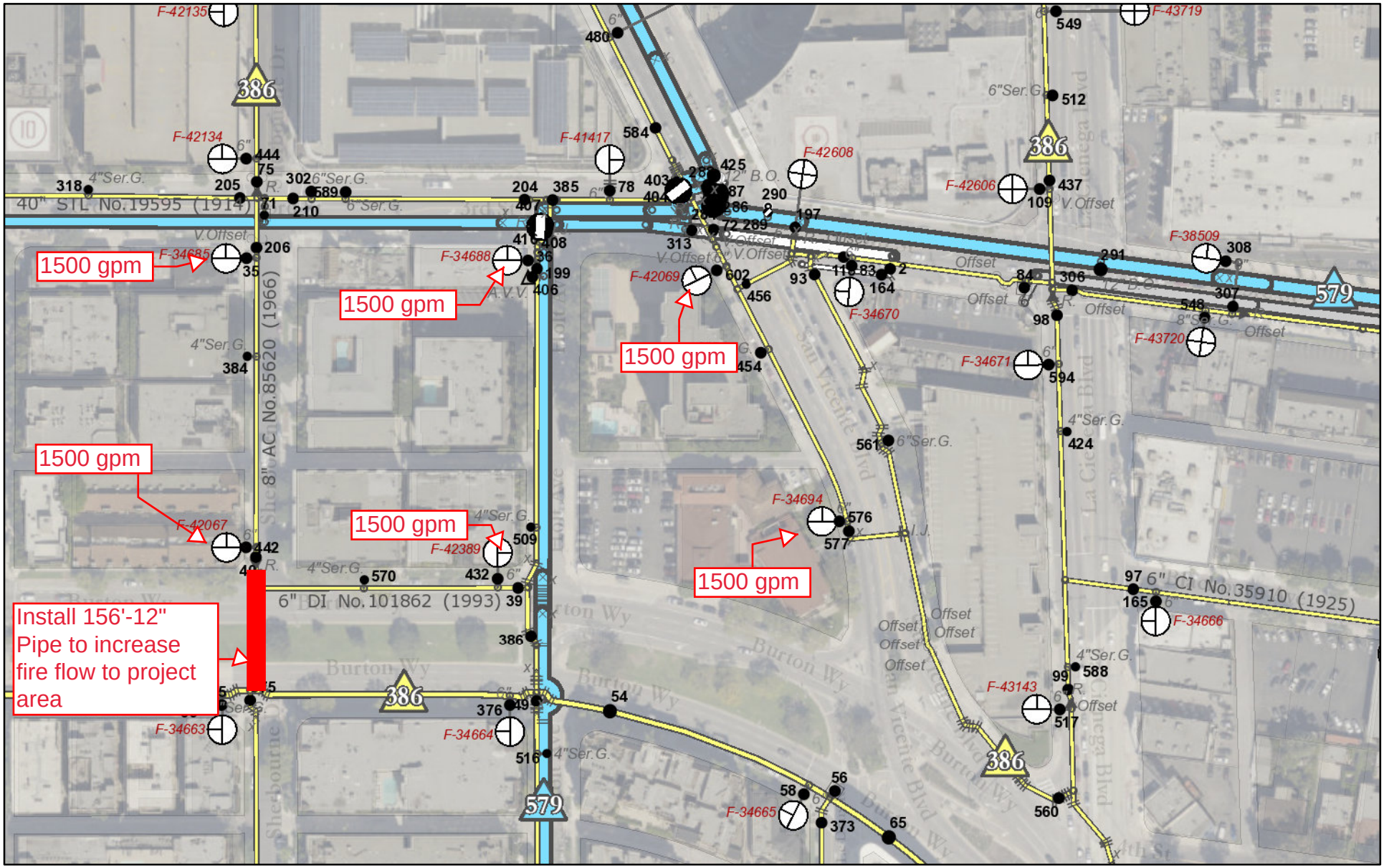
P.O. Box 51111 - Room 1425

Los Angeles, CA 90051-5700

*** If you have any questions, please contact us at (213) 367-2130 or visit our web site at http://www.ladwp.com.**

EXHIBIT 3

333 San Vicente Blvd Water Main Extension



January 6, 2021

1:2,257

0 0.0175 0.035 0.07 mi

0 0.03 0.06 0.12 km

LA County - LARIAC 2014