



CIVIL ENGINEERS • SURVEYORS • CONSTRUCTION MANAGERS

January 7, 2020

Mr. Martin Quan, P.E.
City of Burlingame
Public Works Department
501 Primrose Road
Burlingame, CA 94010

**Re: ENGINEERING SERVICES PROPOSAL, CITY OF BURLINGAME
NEIGHBORHOOD STORM DRAIN PROJECTS #12 ADD
SERVICE #1**

Dear Mr. Quan:

Following up on the meeting held December 4, 2019, the City has requested F&L to expand our scope of services to include a study and proposed storm drain improvements for Dufferin Avenue between El Camino Real and California Avenue. The recent storm event on November 26, 2019 had caused flooding at 1108, 1104, and 1100 Dufferin Avenue. The culvert and 48-inch diameter pipeline adjacent to the rear of these specific homes overtopped and caused flooding potentially due to storm flows exceeding downstream conveyance capacity. Dufferin does not have a storm drain system within the street. F&L will study the existing hydrology in the immediate project area, confirm the carrying capacity of the existing culvert and design a new storm drain system along Dufferin Ave. The proposed scope of work is detailed below.

Scope of Services:

Dufferin Avenue

Project Site 21 – Dufferin Avenue (No Project Site ID)

- Perform topographic Survey of the project area to include the culvert along the northside of Dufferin Avenue.
- Study the existing hydrology and recommend storm drain improvements either to the culvert or Dufferin or both.
- Present proposed improvements to the City for approval prior to design.
- Design a new storm drain system carry a Q10 storm event and help alleviate flooding potential.
- Review the sidewalk/driveways grades within the public right of way at 1108, 1104 and 1100 Dufferin Avenue to determine if raising the back of sidewalk can better contain overland flow.
- Assess and potentially redesign the existing v-ditch at Dufferin Avenue and Westmore Road.

- Redesign the existing curb ramp at 1100 Dufferin Avenue and raise the back of sidewalk to better contain overland flow.
- And new catch basins at California Drive to intercept the existing 8-in SD lines from Killarney Ln, Clovelly Ln, and Hamilton Ln to resolve ponding at those locations.

Project Site 22 – 220 Park Road

- Add a small inlet (12"x12" or 16"x16") at the driveway of 220 Park Road (the former post office) and connect to the existing storm drain main.

Utility Potholing

An allowance for utility potholing is included with our proposed services. The potholing effort is not intended to pothole all utilities at each site but rather critical utilities where the topographic survey may not accurately capture horizontal or vertical alignment such as water, telecommunication, electrical, and other non-gravity utilities that would not have a manhole or other structure that would allow the survey to capture invert location. The proposed pothole locations will be determined during design and F&L will provide a proposed pothole plan to the City for review and approval.

Proposed Fee Schedule

All work will be on a time and materials (T&M) basis, not exceed the following limits without City authorization (please review the Fee Breakdown matrix for breakdown of costs):

Design Services	\$25,550
Utility Pothole (Allowance)	\$5,000
Reimbursable Expenses	\$600

Thank you again for the opportunity of submitting this proposal to you. We look forward to working with you on another successful project. If you have any questions, please feel free to call us.

Sincerely,
FREYER & LAURETA, INC.



Richard J. Laureta, P.E.
President



Lorraine Htoo, P.E.
Senior Project Manager

FEE PROPOSAL: NEIGHBORHOOD STORM DRAIN PROJECT #12, BURLINGAME
Add Service #1

	Principal	Project	Project	Survey	Total Cost
		Manager	Engineer	Crew	per Task
Task	(hours)	(hours)	(hours)	(days)	
Project Site 21 – Dufferin Avenue (No Project ID)					
Topographic Survey			3	4	\$ 11,285
Study	2	4	16		\$ 3,480
Design	2	12	40		\$ 8,360
Project Site 21 Fee:	4	16	59	4	\$ 23,125
Project Site 22 – 220 Park Road (No Project ID)					
Topographic Survey			1	0.5	\$ 1,495
Design	1	2	2		\$ 930
Project Site 22 Fee:	1	2	3	0.5	\$ 2,425
DESIGN SERVICES FEE:	5	18	62	4.5	\$ 25,550
Hourly/Daily Rate	\$ 250	\$ 205	\$ 135	\$ 2,720	