SECTION 00 31 00

AVAILABLE PROJECT INFORMATION

1.1 SUMMARY

A. This Document describes Reference Documents and the use of data resulting from the various investigations or from available information, including, existing geotechnical data and soils engineering reports, and environmental assessment information.

1.2 GEOTECHNICAL REPORTS

- A. Bidders' attention is directed to a geotechnical report that was prepared for the site as follows:
 - 1. Soil Classification Memorandum of liquefaction map for Mission Street Between Geneva and Ney dated March 25, 2021 by San Francisco Public Works. (Total of 3 pages.)
 - 2. Soil Classification Memorandum for alignments along Mission Street Between Geneva and Ney and Geneva Street between Mission and Prague dated October, 21, 2020 by San Francisco Public Works. (Total of 5 pages.)
- B. Geotechnical consultation was obtained only for the use of the City and its consultants for the planning and design of the Project and is not part of the Contract Documents, but boring logs and test results contained in said geotechnical report constitute technical data on which the Bidder may rely. Refer to Paragraph 3.03, Unforeseen Or Differing Conditions, of the General Conditions.
- C. All statements, findings, and interpretations in said report are those of the geotechnical consultant and the City makes no representations, either express or implied, as to the completeness or adequacy of said report.
- D. Digital file/s in PDF of the above reference document is included with the digital Bid Documents.

1.3 USE OF DATA

- A. The foregoing Reference Documents are not part of the Contract Documents. The City does not warrant the completeness of the Reference Documents.
- B. The City makes no representation, either express or implied, that the conditions indicated in the Reference Documents are representative of those existing at the Site, or that different conditions may not occur or materials other than or in proportions different from those indicated may not be encountered. Refer to Paragraph 3.03, Unforeseen Or Differing Conditions, of the General Conditions.
- C. Bidders shall visit the Site and familiarize themselves with existing conditions.

1.4 PRE-BID VISIT TO WORK SITE

A. Prior to bidding, Bidders may make their own subsurface investigations to satisfy themselves as to Site and subsurfaceconditions, but such investigations shall be performed only under the provisions of Section 00 21 13.

END OF SECTION



London N. Breed Mayor

Alaric Degrafinried Acting Director

Albert Ko, PE

City Engineer & Deputy Director

Infrastructure Design & Construction 49 South Van Ness Ave, Suite 1600 San Francisco, CA 94103 tel 628-271-2772 albert.j.ko@sfdpw.org

sfpublicworks.org facebook.com/sfpublicworks twitter.com/sfpublicworks To: ISABEL LIANG, P.E.

San Francisco Public Works – Streets and Highways Section

FROM: Reza Baradaran, P.E.

San Francisco Public Works – Structural Engineering Section

DATE: March 25, 2021

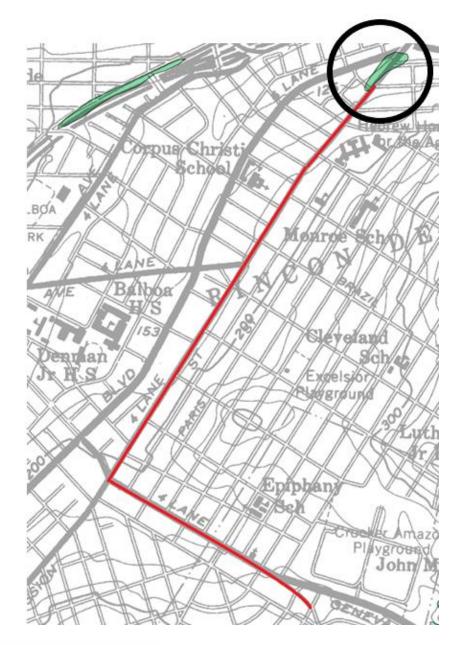
SUBJECT: Soil Classification for

MISSION STREET BETWEEN GENEVA AND NEY

Review of liquefaction map in this vicinity indicates a very small area of the project (circled area on Figure 1) is designated as prone to liquefaction during a major seismic event. No significant excavation is planned for this area, and no lifeline will be added during construction phase of this project.

It should be noted that San Francisco Public Works does not design the roads, bulbouts and light poles to be liquefaction-proof if no significant life safety or injury is anticipated.

We do not think liquefaction potential as mapped by the State geologist pose any safety issues and requires any additional design considerations.



STATE OF CALIFORNIA SEISMIC HAZARD ZONES

Delineated in compliance with Chapter 7.8, Division 2 of the California Public Resources Code (Seismic Hazards Mapping Act)

CITY AND COUNTY OF SAN FRANCISCO

OFFICIAL MAP

Released: November 17, 2000

Liquefaction

Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslides

Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

FIGURE 1

SF Liquefaction Hazard Map

Mission St and Ney St.



The two sections below list environmental monitoring requirements and general environmental topics related to this property.

Report for: MISSION STAND NEY ST

80

Environmental Monitoring

The following projects on this property require Environmental Monitoring, which may include mitigation measures, improvement measures, and/or Director Bulletin (2° No. 2 type 3 clean construction priority processing applications. The Environmental Monitoring document can be found as a Related Document in the More Details section of each record below. For questions about a project's environmental monitoring contact cpc.environmentalmonitoring. Sifeov.org.

Projects with Monitoring Requirements Not applicable.

CEQA Information

Under the California Environmental Quality Act (CEQA), certain scopes of work may require additional environmental review. Below you will find property-specific information that may require further review and/or background studies for proposals reviewed by the Planning Department. For projects requiring a Project Application (2), use the information below to complete the Environmental Evaluation Screening Form (Page 5 and 6). Note that Preservation information is located in the Historic Preservation Tab; Environmental (ENV) projects, active and complete, can be found in the Planning Applications Tab. For questions please contact cpc.epintake@sfgov.org

100-Year Storm Flood Risk Zone (SF PUC) Not applicable.

100-Year Flood Zone (FEMA)



Map Layers 100-Year St

- ☐ 100-Year Storm Flood Risk Disclaimer
- ☐ 100-Year Flood Zone (FEMA)
- ☐ Air Pollutant Exposure Zone (2014)
- ☐ Air Pollutant Exposure Zone (2020)
- ☐ Cortese
- ☐ Environmental Monitoring
- FEMA Special Flood Hazard Area
- ☐ Maher Ordinance
- Seismic Hazard Zone Landslide
- Seismic Hazard Zone Liquefaction
- ☐ Serpentine Rocks
- ☐ Slopes of 20% or greater
- ☐ Slopes of 25% or greater
- ☐ Slope Protection Areas

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London N. Breed Mayor

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MEMORANDUM

To: ISABEL LIANG, P.E.

San Francisco Public Works – Streets and Highways Section

FROM: Reza Baradaran, P.E.

San Francisco Public Works – Structural Engineering Section

DATE: October 21, 2020

SUBJECT: Soil Classification for

MISSION STREET BETWEEN GENEVA AND NEY GENEVA STREET BETWEEN MISSION AND PRAGUE

Available soil reports along the following alignments were reviewed:

- Mission Street between Geneva and Ney
- Geneva Street between Mission and Prague

The entire alignment is Poorly Graded Sand (SP), Silty Sand (SM), and Poorly Graded Sand with Gravel (SP/GW).

Surficial soils generally have permeability in the range of 5×10^{-3} to 10×10^{-3} cm/_{sec} (7 to 15 inch/_{hour}). Rocks is at much deeper depth to impact pavement design.

This road alignment is not mapped in the area designated as vulnerable to liquefaction during seismic event.

All this information is based on very limited geotechnical boring logs in the vicinity or within one city block of the project alignments and should be verified in the field or during construction.

Most Boring logs and test pits at these two alignments are for developments in private or public lots and not on the streets. It is very common that streets were constructed at much earlier time and with substantial cut and undocumented fill during grading. The extent and variations between the reviewed data and actual materials may become evident during constriction. Therefore, the actual soil properties for the streets may vary from what mentioned below.

Alignment	Soil Description	Fill Thickness feet	CBR	R-Value	k pci	Depth to GW feet
Along Mission Street						
Ney Street to Persia Avenue	Sand (SP), Silty Sand (SM), sand with Sandy Gravel, Medium Dense	>3	10	45	200	>15
Persia Street to Geneva Ave	Clayey SanD (SC), Loose to Medium Dense	2 to 3	8	40	170	5-10
Along Geneva Ave						
Mission to Naples	Clayey Silt (CL), Silty Sand (SM)	2 to 3	8	40	170	5-10
Naples to Prague	Silty Sand (SM)	??	6	35	150	>10

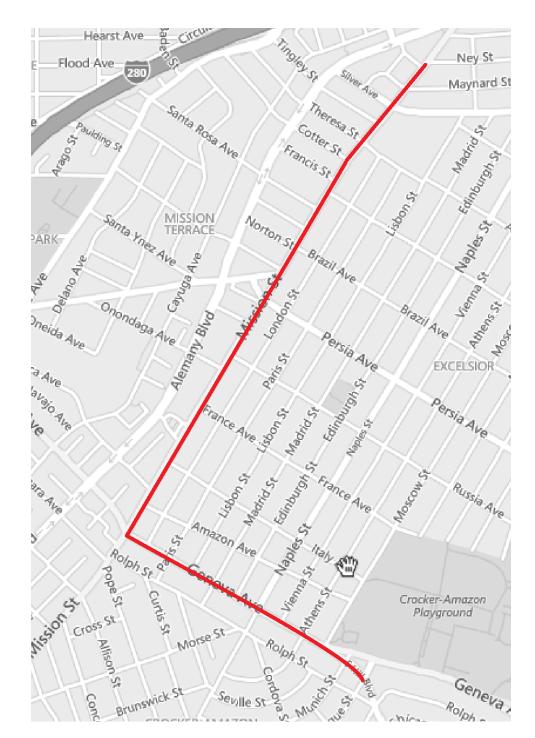
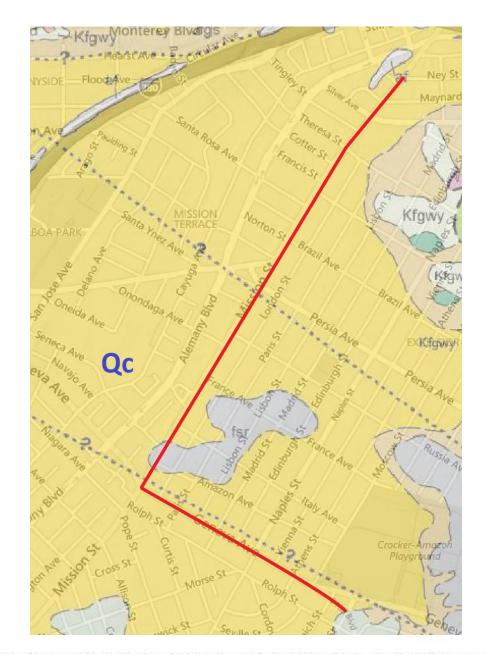


FIGURE 1
Project Alignment



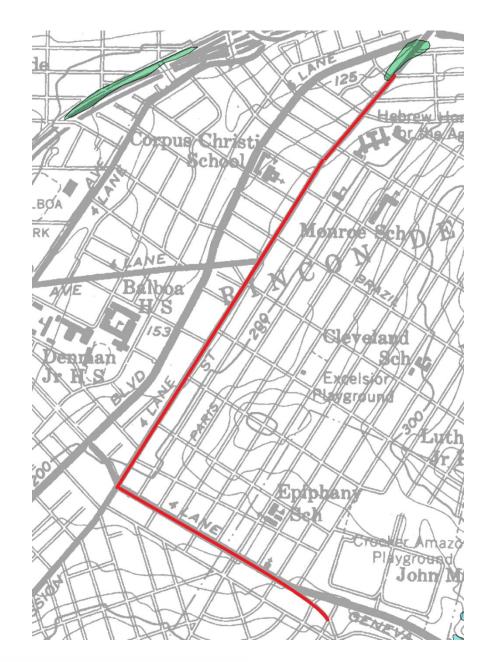
Cochrane, G.R., Johnson, S.Y., Dartnell, Peter, Greene, H.G., Erdey, M.D., Golden, N.E., Hartwell, S.R., Endris, C.A., Manson, M.W., Sliter, R.W., Kvitek, R.G., Watt, J.T., Ross, S.L., and Bruns, T.R., 2015, California State Waters Map Series—offshore of Sar Francisco, California: U.S. Geological Survey, Open-File Report OF-2015-1068, scale 1:24,000

Qc Colma Formation (Pleistocene)—Arkosic sand with subordinate gravel, silt and clay

fsr Central Belt Mélange (Cretaceous and Jurassic)—Variously-sized blocks and slabs of greenstone, serpentinite, chert and other metamorphic rocks in argillite matrix. Two units are identified separately where large enough to be shown on map:

FIGURE 2

Surficial Geology Map of Project Alignment



STATE OF CALIFORNIA SEISMIC HAZARD ZONES

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FIGURE 3

SF Liquefaction Hazard Map