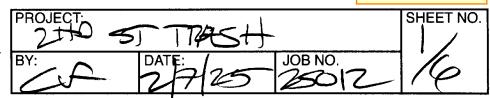


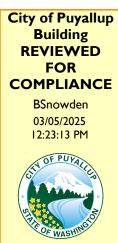
**CONSULTING ENGINEER** 

12181 C Street S. • TACOMA, WA 98444 • (253) 537-8128 • FAX 531-1285



Calculations required to be provided by the Permittee on site for all Inspections





STRUCTURAL CALCULATIONS
FORTHE

200 STREET APTS TRASHETK WEELE

(501-200 STHE)

-JACKS GURPURNO ARCHITECTS

DESIGH PAPADARJENS: 2021 FBC SPE HOTES OH "511" & "A71"





| PROJECT: |       |            | SHEET NO. |
|----------|-------|------------|-----------|
| 22/      |       |            | 2/        |
| BY:      | DATE: | JOB NO. 12 | 16        |

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de wan

Sps=1,08

R=1,25 GRWHOSUPPORTED CAHFILEN

HAUS ONFEHCE

V=1,08/25(1,4) H=, 42 H (450)

W=,0785 W11+0=,0125/w-V=,62(,074)=,048/s

 $| \frac{1}{2} | \frac{$ 

FSOT = (.078(2)+(13,5(15))175 =

Em= 750 (2000) = 1500ks?

Es = 29000 KSC

n = 29000/600 - 19.3 f = 123/12(3.81) = 100000 (#5e|4|0)



CONSULTING ENGINEER

| 12181 C Street S. | • | TACOMA, W | /A 98444                               | (253) 537-8 | 128 • | FΔY        | 531.   | 128 |
|-------------------|---|-----------|--|-------------|-------|------------|--------|-----|
|                   |   | .,,       | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 12001 001-0 | 120   | $I \cap A$ | JU 1 - | 120 |

| PROJECT: |       |         | SHEET NO. |
|----------|-------|---------|-----------|
| BY:      | DATE: | JOB NO. | 3/6       |

$$b = 133$$

$$j = 1 - 133 = 189$$

$$f_0 = \frac{13.9}{12(3.81)} \left(\frac{2}{189(33)}\right) = 159(65) - 00$$

$$f_0 = \frac{13.9}{12(3.81)} \left(\frac{2}{189(33)}\right) = 17.8(65) - 00$$



## **ASCE Hazards Report**

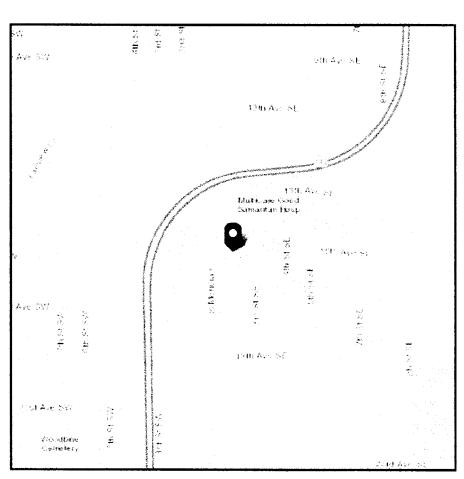
those 1/6

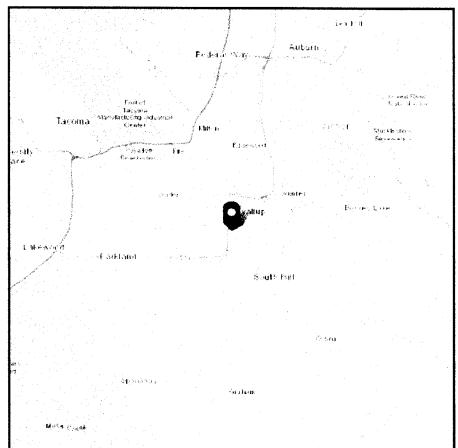
**Address:** Puyallup Washington,

Standard: ASCE/SEI 7-22 Latitude: 47.177438
Risk Category: || Longitude: -122.292318

Soil Class: Default Elevation: 114.73208016092777 ft

(NAVD 88)





### Wind

# Results: Wir

97 Vmph Wind Speed 67 Vmph 10-year MRI 25-year MRI 73 Vmph 50-year MRI 78 Vmph 100-year MRI 83 Vmph 300-year MRI 92 Vmph 700-year MRI 97 Vmph 1,700-year MRI 104 Vmph 3,000-year MRI 108 Vmph 10,000-year MRI 118 Vmph 100,000-year MRI 136 Vmph 1,000,000-year MRI 154 Vmph

Data Source:

ASCE/SEI 7-22, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4, and Section 26.5.2

Date Accessed:

Mon Apr 15 2024



#2012 5/6

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years). Values for 10-year MRI, 25-year MRI, 50-year MRI and 100-year MRI are Service Level wind speeds, all other wind speeds are Ultimate wind speeds.

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-22 Section 26.2.



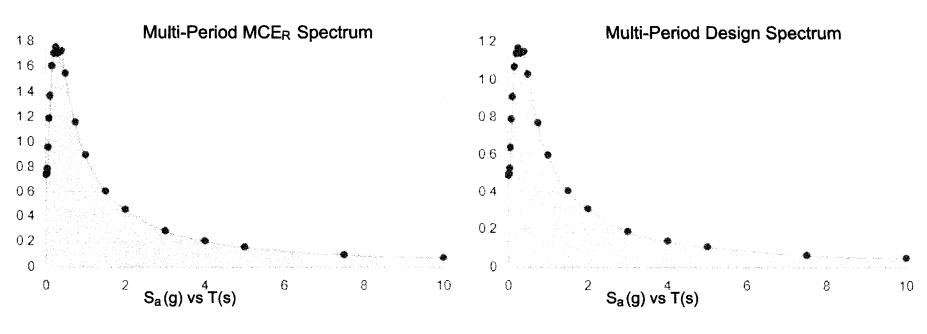


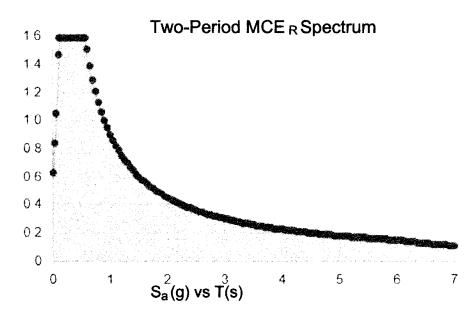


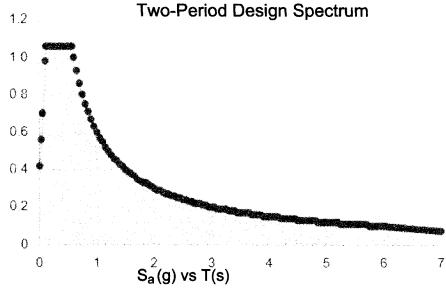
### **Seismic**

| Site Soil Class:<br>Results: | Default |                    |      |  |
|------------------------------|---------|--------------------|------|--|
| PGA <sub>M</sub> :           | 0.56    | T <sub>L</sub> :   | 6    |  |
| S <sub>MS</sub> :            | 1.59    | S <sub>s</sub> :   | 1.44 |  |
| S <sub>M1</sub> :            | 0.9     | S <sub>1</sub> :   | 0.42 |  |
| S <sub>DS</sub> :            | 1.06    | V <sub>S30</sub> : | 260  |  |
| S <sub>D1</sub> :            | 0.6     |                    |      |  |

#### Seismic Design Category: D







MCE<sub>R</sub> Vertical Response Spectrum Vertical ground motion data has not yet been made available by USGS.

Design Vertical Response Spectrum Vertical ground motion data has not yet been made available by USGS.