

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire Fire	Traffic			

PRMU20241695

PROJECT:

2 THO S REST ACTS

BY:

CO DATE:

10 18 24 24 12

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

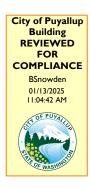
Calculations required to be provided by the Permittee on site for all Inspections

STRUCTUITAL CALCULATIONS
FUR THE
240 SPECT APARIMENTS
(240 STREET PUTALLIP)

-OAMES GUERRERO ARCHITECT

DESIGH PARACHEDERS - 2021 FBC SEE HOPES OH "SI,1"





HZ4In ZA



Puyallup Washington,

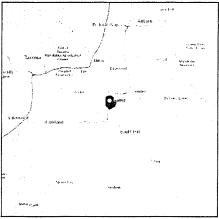
# ASCE Hazards Report

Standard: Risk Category: II

ASCE/SEI 7-22 Latitude: 47.177438 Longitude: -122.292318

Soil Class: Default Elevation: 114.73208016092777 ft (NAVD 88)





## Wind

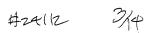
### Results:

	Wind Speed	97 Vmph
_	10-year MRI	67 Vmph
	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







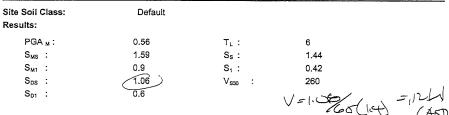
Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-22 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance 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.

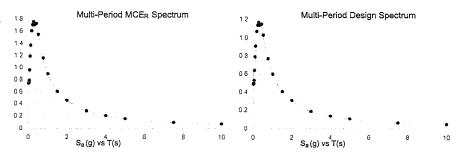


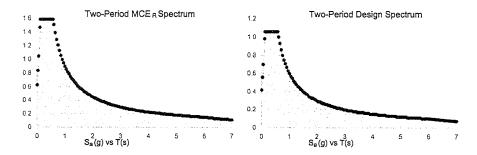






### Seismic Design Category: D





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.

C Christian Funboc ::
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PROJECT:			SHEET NO.
BY:	DATE:	JOB NO.	9/A

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$$W_{200} = 02(81)(42) = 153k$$

$$W_{3rd} = 02(81)(42) = 229k$$

$$W_{210} = 030(181)42 - 229$$

$$U_{210} = 012k$$

$$V_{383} = 060(14) = 112k$$

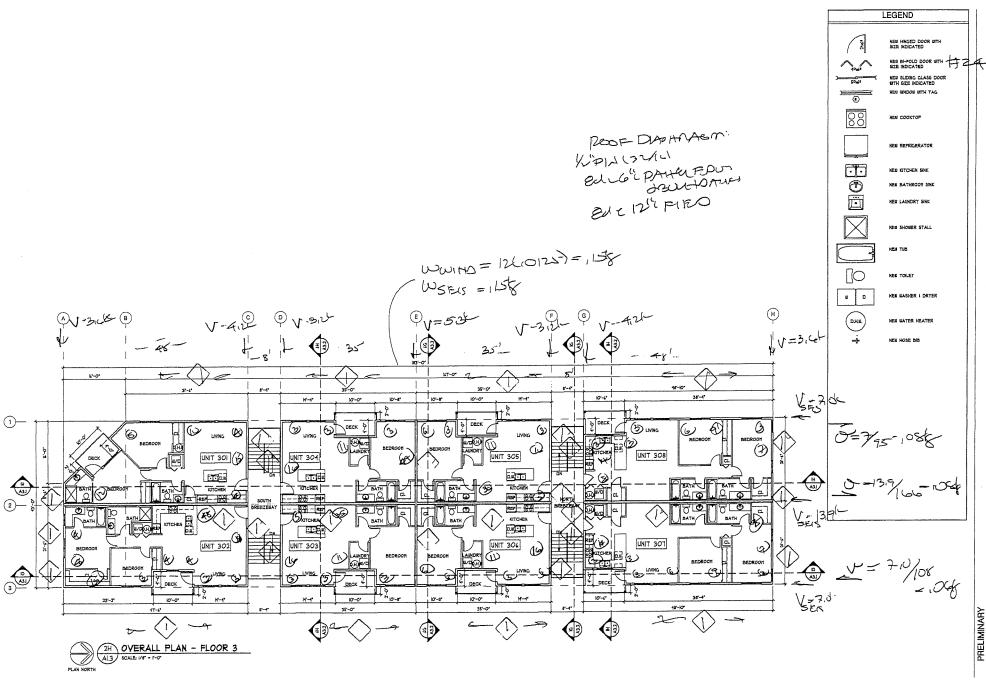
$$V_{210} = 12(612) = 71.3k$$

$$V_{200} = 275(153) + 19(219) + 95(229)$$

$$10734$$

$$V_{3rd} = \frac{19(219)}{10734} (71.3) = 28.9k$$

$$V_{2rd} = \frac{95(219)}{10734} (71.3) = \frac{19.5k}{10734} - 0k$$



1/2

7520 Bridgeport Way West Lakewood, WA 98499 Phone: (253) 581-6000

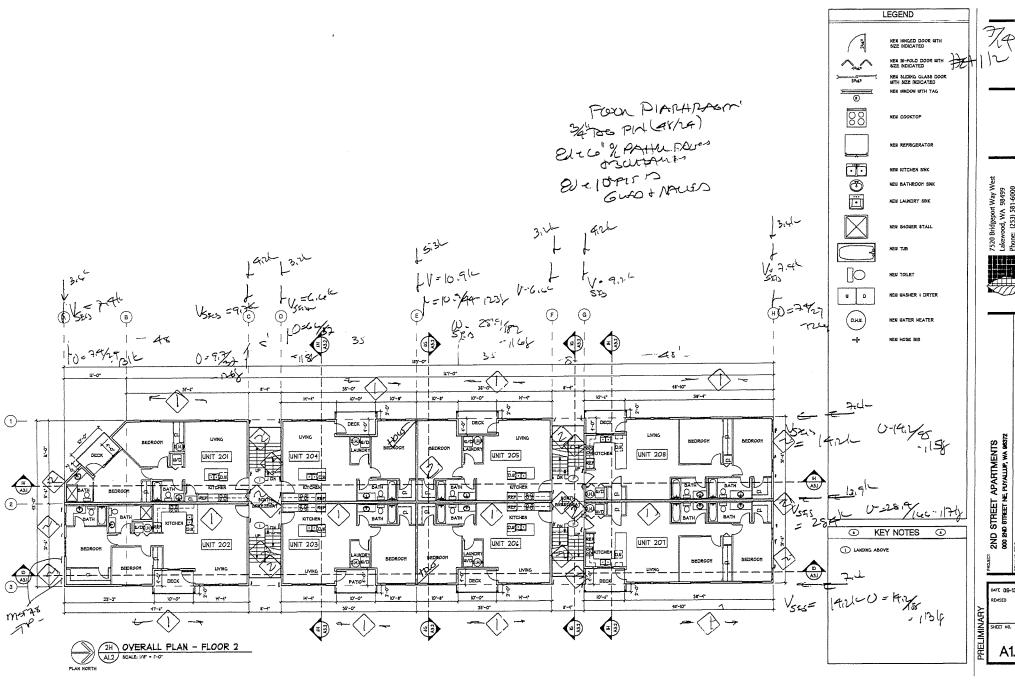
7520 Lake

> 2ND STREET APARTMENTS 000 2ND STREET NE, PUYALLIP, WA 96372

DATE 09-13

SHEET NO.

Α

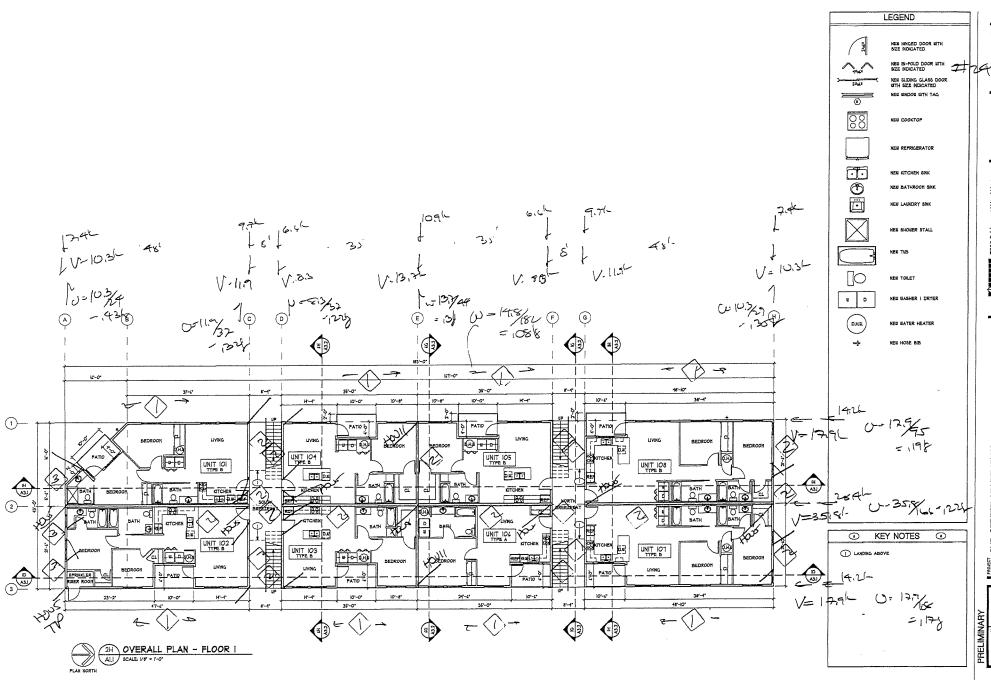


7520 Bridgeport Way West Lakewood, WA 98499 Phone: (253) 581-6000

2ND STREET APARTMENTS 000 2ND STREET NE, PUYALLIP, WA 86372

DATE 09-13 REVISED

SHEET NO.



7520 Bridgeport Way West Lakewood, WA 98499 Phone: (253) 581-6000

2ND STREET APARTMENTS 000 24D STREET NE, PUYALLIP, WA 96372

DATE 09-13-

SHEET NO.



12202 PACIFIC AVE. S. • TACOMA, WA 98444 • (253) 537-8128 • FAX 531-1285

PROJECT:		· · · · · · · · · · · · · · · · · · ·	SHEET NO.
BY:	DATE:	JOB NO.	4

	Mark (shear capacity)	Wall Type (3)	Panel Edge Nailing (1), (2)	Intermediate Nailing (2)	Bottom Plate Anchor Bolting or Nailing (5)
	(20J lb/ft.)	½" CDX Plywood or OSB, one side	8d @ 6" o.c.	8d @ 12" o.c.	½" A.B. @ 4'-0" o.c. or 16d @ 7½ o.c.
Action and a second	(350 lb/ft.)	1/2" CDX Plywood or OSB, one side	8d @ 4" o.c.	8d @ 12" o.c.	5/8" A.B. @, 3'-4" o.c. or 16d @ 4" o.c.
Section of the Party Section 2015	(87-9b/ft.)	1/2" CDX Plywood (	ටක්@ 2්ට.c. (4)	101@ 12" o.c.	3/4" A.B. @ 18" 2 O'L 5 DSZ 514 C4" 2
	(200) Ib/ft.)	(Boyterbes)	rode 32 (4)	iden'z	34"AB e 12" on Sps2514 e z" ~

### Notes:

- 2.

- Block all panel edges.
  Common or box nails.
  2x studs shall be H.F. #2 or better, kiln-dried.
  Use 3x studs and plates @ panel edges, wall type 3 only.
  Anchor bolts shall have minimum 3" by 3" by

  y4 " thick plate washers.

$\Box$	II	51	Jar	
f		n	XX	o DC
	24121 41		_	

CONSULTING ENGINEER

PROJECT:			SHEET NO.
BY:	Iner-		10)
	DATE:	JOB NO.	1 St

12202 PACIFIC AVE. S. • TACOMA. WA 98444 • (253) 537-8128 • FAX 531-1285

# SHEAR WALL (HEMFIR VALUES)

1532 STRUCTI 8d C 61/2 280(.82) = 230/1 1/2" \$ AB C 410"4 600(1.64) = 290 1bg 16d e = 233 1bg

2001p/m.

2/32 STRUCT I Ede  $4^{11}/4$  430(.30) = 353/6 2/32 STRUCT I Ede  $4^{11}/4$  430(.30) = 353/6 350 10/4

3 132 STRUCT I I O . ez E 870 = 870 /b = 870 /b = 1557, by 4 42 0 16 - 1460 (16)/5 = 1557, by 4 505 CAE 250 (16) 12 = 1200.by

C Christian Funboc
CONSULTING ENGINEER

PROJECT: SHEET NO. DATE:

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Prof FRAMILLE L=51 W= 104(12) = 148/8 M-148(5)n=18k Spen 18/9454(15) - 16,200 4X12DF#Z

> 12-81 W= 104(21) = 184/g M= ,89(8/2)\_ 80.61c" Species 80,6/1965 (1,15) - 727-

W=(104+.013+,01)11=G176 M= 07-(15)12- 2666 K" Spec=266/24-111-74x1178/LUL D= 57 (14)(14)(1+4) =15911 -15911 -15911



PROJECT: SHEET NO. 12

BY: DATE: JOB NO. 27(1/2)

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l=(4) M=0,7-(14) /2 = 206/6 Spec 20/24 = 86-1 54/21/3/24 D= 5 (17)(4)4(7-28) -13911
1800 (977)
1/494 P= ,7(14) 2- 19,ck L= 119,6/15 = 316 PTL USE 40" AXIL"  $\frac{1-81}{\omega=(1+0)+104)}|_{1}^{1}=0128$ M-0,2(8) 12-19,2k" SRO- 19,2/198(18) = 24.4 m -2x 12 e (6) E



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 $\frac{L^{-1}x'}{W = .125(x) = .258}$  M = .25(x) = .258 M = .25(x) = .54L'' Spec = .57(95)(8) = .320 TM = .4x | 2 = .500 + .000

 $\frac{1-177}{W-(.04+.013+.01)} | \% = .0841$  M-.084(17+2 = 3.0 + 1) 1176' TOTA236066'6

# Design Properties and Material Weights

TJI® joists are intended for dry-use applications

Trus Joist • TJIº Joist Specifier's Guide 2025 • May 2005

# Design Properties (100% Load Duration)

			Basic Properties			Reaction Properties		
Depth	¶.T	Jaist Weight (lbs/ft)	Maximum Resistive Moment <sup>(1)</sup> (ft-lbs)	Joist Only El x 106 (in.2-lbs)	Maximum Vertical Shear (lbs)	13/4" End Reaction (lbs)	31/2" Inte	on (ibs) With Web Stiffeners
	110	2.3	2,380	140	1,220	885	1.935	N.A.
91/2"	210	2.6	2,860	167	1,330	980	2.145	N.A.
	230	2.7	3,175	183	1,330	1,035	2,410	N.A.
	110	2.5	3,015	238	1.560	885	1,935	2,295
	210	2.8	3,620	283	1,655	980	2.145	2,505
11%"	230	3.0	4,015	310	1,655	1,035	2,410	2,765
	360	3.0	6,180	419	1,705	1.080	2.460	2,815
	560	4.0	9,500	636	2,050	1,265	3,000	3,475
	110	2.8	3,565	351	1.860	885	1,935	2,295
	210	3.1	4,280	415	1,945	980	2,145	2,505
14"	230	3.3	4,755	454	1,945	1,035	2,410	2,303
- 1	360	3.3	7.335	612	1,955	1,080	2,460	
	560	4.2	11,275	926	2,390	1,265	3,000	2,815
	210	3.3	4.895	566	2,190	980	2,145	3,475
16" -	230	3.5	5,440	618	2,190	1,035		2,505
10" -	360	3.5	8,405	830	2,190	1,080	2,410	2,765
	560	4.5	12,925	1,252	2,710	1,265	2,460 3.000	2,815 3,475

(1) Caution: Do not increase joist moment design properties by a repetitive member use factor.

#### **General Notes**

- Design reaction includes all loads on the joist. Design shear is computed at the inside face of supports and includes loads on the span(s). Allowable shear may sometimes be increased at interior supports in accordance with ICC ES ESR-1153, and these increases are reflected in span tables.
- The following formulas approximate the uniform load deflection of  $\Delta$  (inches):

TJI® 110, 210, 230, and 360 Joists TJI® 560 Joists  $\Delta = \frac{22.5 \text{ wL}^4}{\text{El}} + \frac{2.67 \text{ wL}^2}{\text{d x } 10^5}$  $\Delta = \frac{22.5 \text{ WL}^4}{5} + \frac{2.29 \text{ WL}^2}{1}$ 

w = uniform load in pounds per linear foot

- d = out-to-out depth of the joist in inches
- El = value from table above

### #24112 Material Weights

٠	,
-	Floor Panels
1	Southern Pine
47-1-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	½° plywood1.7 p
;	56" plywood2.0 p
į	¾* plywood2.5 p
1	11/s" plywood 3.8 p.
ì	1/2" OSB1.8 ps
	₩ OSB2.2 ps
	34" OSB
	7/8" OSB3.1 ps
	11/6" OSB
	Based on: Southern pine - 40 pcf for plywood, 44 pcf for OSB
	pry 110000, 44 per 101 03B
	Roofing
	Asphalt shingles2.5 ps
	Wood shingles 2.0 ps
	Clay tile
	Slate (14° thick)
	Roll or Batt insulation (1" thick):
	Rock wool0.2 ps
	Glass wool
	Floor Finishes
	Hardwood (nominal 1") 4.0 psi
	Sheet vinyl
	Carpet and pad1.0 pst
	34" ceramic or quarry tile 10.0 psf
	Concrete:
	Regular (1")12.0 psf
	Lightweight (1") 8.0 to 10.0 psf
	Gypsum concrete (34")6.5 psf
	Cellings
	Cellings Acoustical fiber tile1.0 psf
	12" gypsum board2.2 psf
	54" gypsum board2.8 psf
	Plaster (1" thick)8.0 psf
	,

#### TABLE OF CONTENTS

1-800-628-3997 www.trusjoist.com



(Include TJI® weights in dead load calculations—see Design Properties table at left for joist weights)
Southern Pine
½° plywood1.7 ps
56" plywood2.0 ps
34° plywood2.5 ps
11/6" plywood
1/2" OSB1.8 ps
%* OSB2.2 ps
34" OSB
7/8" OSB
11/6" OSB
Based on: Southern pine - 40 pcf for plywood, 44 pcf for OSB
Roofing
Asphait shingles 2.5 psf
Wood shingles
Clay tile
Slate (1/4" thick)
Roll or Batt insulation (1" thick):
Rock wool
Glass wool
Floor Finishes
Hardwood (nominal 1")4.0 psf
Sheet vinyl
Carpet and pad1.0 psf
34" ceramic or quarry tile 10.0 psf
Concrete:
Regular (1")
Lightweight (1") 8.0 to 10.0 psf
Gypsum concrete (¾4")6.5 psf
Cellings
Acoustical liber life1.0 pst
1/2" gypsum board2.2 psf
56° gypsum board2.8 psf
Plaster (1" thick)8.0 psf