2018 Washington State Energy Code, Commercial Provision.

- 1. C301 Climate zone for energy compliance has been defined per Table C301.1.
- **2. C303.1.1** Building thermal envelope insulation.

R-value indentification mark shall be applied by the manufacturer to each piece of building thermal envelope insulation 12 inches or greater in width. Alternately, the insulation installers shall provide a certification listing the type, manufacturer and R-value of insulation installed in each element of the building thermal envelope. For blown or sprayed polyurethane foam (SPF) insulation, the installed thickness of the areas covered and R-value of installed thickness shall be listed on the certification. For insulated siding, the R-value shall be labeled on the product's package and shall be listed on the certification the insulation installer shall sign, date and post the certification in a conspicuous location on the job site.

Exception: for roof insulation installed above the deck, the r-value shall be labeled as required by the material standards specified in table 1508.2 of the SBC.

3. C303.1.2 Insulation mark installation.

Insulating materials shall be installed such that the Manufacturer's R-value mark is readily observable upon inspection.

4. C303.1.3 Fenestration product rating.

- U-factors of fenestration shall be determined as Follows:
- 1) For windows, doors and skylights, u-factor ratings shall be determined in accordance with NFRC 100.
- 2) Where required for garage doors and rolling doors, u-factor ratings shall be determined in Accordance with either NFRC 100 or ANSI/DASMA 105.

U-factors shall be determined by an accredited, independent laboratory, and labeled and certified by The manufacturer.

Products lacking such a labeled U-factor shall be assigned a default U-factor from table C303.1.3(1), C303.1.3(2) or C303.1.3(4). The solar heat gain coefficient (SHGC) and visible transmittance (VT) of glazed Fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC or VT shall be assigned a default SHGC or VT from table C303.1.3(3).

- **5. C401.2.1** The building will comply with the prescriptive path and requirements of Section C402, C403, C404, C405, C406, C408, C409, C410 and C411.
- **6. C403.4** HVAC system controls.

HVAC systems shall be provided with controls in accordance with sections C403.4.1 through C403.4.11 and shall be capable of and configured to implement all required control functions in this code.

7. C404.9 Domestic hot water meters.

Each individual dwelling unit in a group R-2 occupancy with central service water heating systems shall be provided with a domestic hot water billing based on actual domestic hot water usage.

8. C404.14 Commissioning.

Service water heating systems shall be commissioned in accordance with section C408.

9. C405.7 Dwelling unit electrical energy consumption.

Each dwelling unit located in a Group R-2 building shall have a separate electrical meter. A utility tenant meter meets this requirement. See Section C409 for additional requirements for energy metering and energy consumption management.

Exception: Dwelling units in other than Group R-2 apartment and live/work units are not required to provide a separate electrical metering at each dwelling unit where electrical usage is metered separately for each of the following building end

- 1. Dwelling units.
- 2. Sleeping units.
- 3. Commercial kitchens.
- 4. Central laundries.

10. C406.1 Additional energy efficiency credit requirements

New buildings and changes in space conditioning, change of occupancy and building additions in accordance with chapter 5 shall comply with sufficient packages from Table C406.1 so as to achieve a minimum number of 6 credits. Each area shall be permitted to apply for different packages provided all areas in the building comply with the requirement for 6 credits. Areas included in the same permit within mixed use buildings shall be permitted to demonstrate compliance by an area weighted average number of credits by building occupancy achieving a minimum number of 6 credits.

11. C408 System commissioning.

A building commissioning process led by a certified commissioning professional and functional testing requirements shall be completed for mechanical systems in section C403, service water heating systems in section C404, controlled receptacles and lighting systems in section C405, equipment, appliance and systems installed to comply with section C406 or C407; energy metering in section C409 and refrigeration in section C410.

12. C409.2 Energy source metering.

Buildings shall have a meter at each energy source. For each energy supply source listed in Section C409.2.1 through C409.2.4, meters shall collect data for the whole building or for each separately metered portion of the building where not exempted by the exception to Section C409.1.

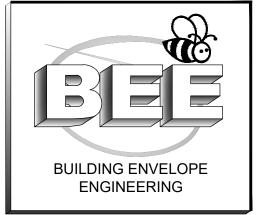
Exceptions:

1. Energy source metering is not required where end use metering for an energy source accounts for all usage of that energy type within a building, and the data acquisition system accurately totals the energy delivered to the building or separately metered portion of the building.

2. Solid fuels such as coal, firewood or wood pellets that are delivered via mobile transportation do not require metering.

13. C411 Solar readiness.

A solar zone shall be provided on non-residential buildings that are 20 stories or less in height above grade plane. The solar zone shall be located on the roof of the building or on another structure elsewhere on the site. The solar zone shall be in accordance with Sections C411.2 through C411.8 and the International Fire Code.



PH: (425) 672 3900

B.E.E. CONSULTING, LLC. 170 W. DAYTON, SUITE 206 EDMONDS, WA 98020

1/30/2023 MUKILTEO

Received by Email

Hill Mixed-Use Park 5 OSe

	DATE	DESCRIPTION
	01.30.2023	Permit Set
DI	IACE.	

PERMIT SET

BEE PROJECT #: 2210-1003

P.E.:	Chad Smith
P.M.:	Chad Smith
ENERGY:	Telman Gasanov
DRAFTER:	Stephen Polledri

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THESE DRAWINGS ARE FOR GENERAL ARRANGEMENT OF MATERIALS ON SITE CONDITIONS GOVERN. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

SHEET NAME:

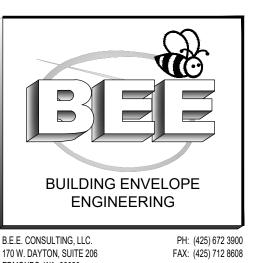
ENERGY CODE NOTES

2019 WSEC Con	mpliance Forms for			R2, R3 & R4 over 3 stories and a	all D1				A dm in	istered by: @20	023 NEEA, All	rights reserved
2018 WSEC COI	inpliance Forms for	Pines	ject Title	5 ^N	m кт Гhird and Park - 2018 W	/SEC	For Bui	ilding Department Use:	Admin	L	3//	n 25, 2023
D	Poolia.	Pro	ject Address	3RD & PARK AVE MUKILTEO, WA 98275				_		100	ate. Ja	11 23, 2023
Project & Applic Information	icant		plicant Name	Pav	lo Serdechnyi		1					
			plicant Phone plicant Email	0.07 9998	25-678-1736 bee-engineers.com		-					
		For q	uestions about this repo	ort, contact WSEC Commercial T	Fechnical Support at 360)-539-5300 or vi	a email at	com.techsupport@waen	ergycodes.com			
General Occupa	an cy	1		al + Group R building over 3	General Building Use	е Туре Ми	ultifam ily/	Residential, Mixed Use	Building Cond. 1	Floor Area	19,5	53
**************************************				stories		5 1 ** ** 65	•		Project Cond. Fl	economic security control of the con	19,5	53
Project Scope			New Building Space Conditioning			Categories	Full	ly Conditioned	Floors Above Gr Compliance Met		2 ompliance Metl	
Envelope Projec	ct Description	CC	ONSTRUCTION OF N	EW MULTI-FAMILY BUILDIN	NG COMPRISED OF 14							
	1					ALONG 3	SKD AVE.					
Envelope Compliance	Scope	Space Condi	itioning Category	Compliance Method	WWR/SRR per Category	UA Cal	lculation .	Adjustment	Fenestration Alto	ernates	Compliance V	/erification
Scope and Method	New Building	Fully (Conditioned	Component performance	26.84% / 0.80%			lope option n WSEC target)	No alternates se	lected	COMP	LIES
Air Barrier Test	ting		Air barrier testing	included in project scope	Air Barrier Comm	ents		I		•		
					Transcription appropriate delical accomplished approve	500 500 500 500 500 500 500 500 500 500		*				
Project	Title Willian	ns Invest - Thi	rd and Park - 201	8 WSEC						Date	Jan 25, 202	3
Scope & Spac	ce Conditioning	NE NE	W BUILDING - I	TULLY CONDITIONED				Com	pliance Verific	ation COM	PLIES	
Window-to-wall	l Ratio		26.84% Skyl	ight-to-roof-ratio		0.80%	Vertical	l Fenestration Alternat	e		No alternates s	elected
Opaque Envelop	p e Assemblies											
		T a saulton lin	. 1					Insu	lation R-Values Continuous	21 T		Not Aven
Roof/Ceiling		Location in Documents		Assembly ID		Assembly L	ocation	Cavity	(% p enetration)	2nd Layer (MB Roof)	U-Factor	Net Area (SF)
	Attic and other	A1.01	WIGEG A Line A	RW1, RW2 / Level 2		Exterio	or	R-30 U-Factor Source Descr	R-20 (< 0.04%)	E	U-0.02	516
		May seems as the seems	WSEC Appendix A pe (Standard, Advance	l): Standard				Roof Framing Material	Marian racean as			
	Attic and other	Ceiling/Attic Vent A1.01	ting: Unvented	RW1, RW2 / Level 2		Exterio	or	Is this assembly exterio	or or interior?: Exte	rior	U-0.015	4,195
	zane and other	U-Factor Source:	WSEC Appendix A			Exterio	J1	U-Factor Source Descr	iption: Table A101	.5, Table A102.		77,173
	***	Roof Framing Typ Ceiling/Attic Vent	pe (Standard, Advance ting: Unvented	l): Standard				Roof Framing Material Is this assembly exterio		rior		
	Attic and other	A1.01		RW1, RW2 / Level 2		Exterio	or	R-30	R-30 (< 0.04%)	59KTA/0027	U-0.016	1,987
		17	WSEC Appendix A pe (Standard, Advance	l): Standard				U-Factor Source Descr Roof Framing Material		.5, Table A102.	2.6(2)	
	18-178 D4 178	Ceiling/Attic Vent	ting: Unvented			1		Is this assembly exterio		rior	77.0017	T
	Attic and other	A1.01 U-Factor Source:	WSEC Appendix A	RW1 / Level 2		Exterio	or	R-30 U-Factor Source Descr	R-28 (< 0.04%) iption: Table A101	.5, Table A102.	U-0.017 2.6(2)	1,246
	r.	Roof Framing Typ Ceiling/Attic Vent	pe (Standard, Advance	l): Standard				Roof Framing Material Is this assembly exterio		300.223	26 - 39 	
	Attic and other		ting: Unvented	RE / Roof		Exterio	or	R-48	R-7 (< 0.04%)	erior	U-0.018	51
			WSEC Appendix A pe (Standard, Advance	1): Standard		- 100		U-Factor Source Descr Roof Framing Material		.5, Table A102.	2.6(1)	
		Ceiling/Attic Vent		***		•		Is this assembly exterio	or or interior?: Exte	rior		
	Attic and other	The second secon	WSEC Appendix A	RW1 / Level 2		Exterio	or	R-30 U-Factor Source Descr	R-25 (< 0.04%)	5. Table A 102.	U-0.018	275
		Roof Framing Typ	pe (Standard, Advance	l): Standard				Roof Framing Material	l: Wood-framed			
	Attic and other	Ceiling/Attic Vent A1.01	ting: Unvented	RW1 / Level 2		Exterio	or	Is this assembly exterion R-30	or or interior?: Exte R-22 (< 0.04%)	rior	U-0.019	43
		mor sorrer on sorrer	WSEC Appendix A	N. G 1 1				U-Factor Source Descr	CONTRACTOR	.5, Table A102.	2.6(2)	
		Ceiling/Attic Ven	pe (Standard, Advance ting: Unvented	i): Standard				Roof Framing Material Is this assembly exterior	His Old Acceptation and American Section 2	rior	20	26
	Attic and other	*CAUCOBCOC 0310-10-1	WSEC Appendix A	RW2 / Level 2		Exterio	or	R-30 U-Factor Source Descr	R-40 (< 0.04%)	5 Table 4 102	U-0.014	503
			pe (Standard, Advance	l): Standard				Roof Framing Material	l: Wood-framed		2.0(2)	
	Attic and other	Ceiling/Attic Vent A1.01	ting: Unvented	RS / Roof		Exterio	or	Is this assembly exterio	or or interior?: Exte R-48 (< 0.04%)	rior	U-0.014	353
		U-Factor Source:	WSEC Appendix A					U-Factor Source Descr	iption: Table A101	.5, Table A102.		
		Roof Framing Typ Ceiling/Attic Vent	pe (Standard, Advanced ting: Unvented	I): Standard				Roof Framing Material Is this assembly exterio		rior		
	Attic and other		WSEC Appendix A	RE / Roof		Exterio	or	R-48 U-Factor Source Descr	R-5 (< 0.04%)	5 Table 4 102	U-0.019	57
		and another in the second	WSEC Appendix A pe (Standard, Advance	l): Standard				Roof Framing Material	CONTRACTOR	.5, Table A102.	2.6(2)	
		Ceiling/Attic Vent				1		Is this assembly exterio	or or interior?: Exte	rior Insulated		
Walls		Location in Documents		Assembly ID		Assembly L	ocation	Cavity	(% p enetration)	Wall Furring	U-Factor	Net Area (SF)
Wood-framed a	and other - Group R			WX.6 12R, WX.6 11 / Levels 1		Exterio	or	R-23	R-0 (< 0.04%)	- max.mg	U-0.052	7,861
			code target does wall c Description: Table A10	omply with?: Wall Assembly U- 1.5	factor			U-Factor Source: WSE Framing Depth: 2x6	CC Appendix A			
Wasd	from ad and other	Framing Spacing:	: 16" o.c.			1		Is this assembly exterio	or or interior?: Exte	rior		f
wood-	-framed and other - Commercial	Commence of the second		WX.6 12R, WX.6 11 / Leve	885.70	Exterio	or	R-23	R-0 (< 0.04%)		U-0.052	308
			code target does wall c Description: Table A10	omply with?: Wall Assembly U- 1.5	iactor			U-Factor Source: WSE Framing Depth: 2x6				
	St. St. Spinson	Framing Spacing:	- OS			W-11:	nterio-	Is this assembly exterio	20000000000000000000000000000000000000	2015a		
Mass (precast c	concrete) - Group R	4		C.8 00+SN.2 10 / Parking	3	Wallisanin partitio			R-12.5 (< 0.04%)	No	U-0.073	529
			clude wall furring?: No WSEC Appendix A					Framing Spacing: U-Factor Source Descr	iption: Table A103	.3.7.1(2)		
Mass (precast c	concrete) - Group R			C.10 00 / Parking		Wall is below	w grade		R-12.5 (< 0.04%)	No	U-0.073	339
			clude wall furring?: No	PROV.		ţ		Framing Spacing:	Medigliology Consension (Miles		<u>I</u>	1
Mass (precast c	concrete) - Group R	Average Avvoys cardinatives	WSEC Appendix A	Elevator pit		Wall is below	w grade	U-Factor Source Descr	iption: Table A103 R-10 (< 0.04%)	.3.7.1(2) No	U-0.080	150
	The state of the	Does assembly in	clude wall furring?: No	HEROTOCOCO CONSESS.		on-complete in 1999 (C) (C) (C)	Market State	Framing Spacing: U-Factor Source Descr	1000-1000 V 1100-1000-100-2	##\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	No. 14 EVISSON 5077	prov. #4400
		U-Factor Source: Location in	WSEC Appendix A			1			Continuous			Net Area
TO 1 TO 1	es	Documents		Assembly ID		Assembly L	ocation	Cavity	(% p enetration)		U-Factor	(SF)
Floors and Edge		A1.01	WSEC Appendix A	FC2 / Level 1		Exterio	or	U-Factor Source Descr	R-38 (< 0.04%)	.1(3)	U-0.025	8,878
Floors and Edge	Mass	-Hactor Commer.		erior						(-)		
~	5.03555	Is this assembly e	xterior or interior?: Ex			Exterio	or	R-30 U-Factor Source Descr	R-0 (< 0.04%) iption: Table A105	.1(1)	U-0.029	74
~	Mass Wood-framing/joist	Is this assembly e A1.01	WSEC Appendix A	FW1/Level 2						COLOR STORY		
~	5.03555	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty	WSEC Appendix A pe (Joist, Post & Beam): Wood Joist				Framing Depth: 2x6				
7	5.03555	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e	WSEC Appendix A): Wood Joist		Exterio	or	Framing Depth: 2x6	R-0 ()		U-0.2	238
7	Wood-framing/joist	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e A1-A3.13 U-Factor Source:	WSEC Appendix A pe (Joist, Post & Beam xterior or interior?: Ex WSEC Appendix A): Wood Joist erior Transfer / Level 1		Exterio	or	Framing Depth: 2x6 U-Factor Source Descr			U-0.2	238
Mass trans	Wood-framing/joist	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e A1-A3.13 U-Factor Source: Is this assembly e	WSEC Appendix A pe (Joist, Post & Beam xterior or interior?: Ex): Wood Joist erior Transfer / Level 1					iption: Table A103			
Mass trans	Wood-framing/joist usfer deck slab edge	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e A1-A3.13 U-Factor Source: Is this assembly e B1-A3.14	WSEC Appendix A pe (Joist, Post & Beam xterior or interior?: Ex WSEC Appendix A xterior or interior?: Ex): Wood Joist erior Transfer / Level 1 erior Slab edge / Level 1		Exterio Exterio		U-Factor Source Descr	R-10 (< 0.04%)		U-0.2	238
Mass trans	Wood-framing/joist isfer deck slab edge te mass floor edge - Group R	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e A1-A3.13 U-Factor Source: Is this assembly e B1-A3.14 Wall Thickness A	WSEC Appendix A pe (Joist, Post & Beam xterior or interior?: Ex WSEC Appendix A): Wood Joist serior Transfer / Level 1 serior Slab edge / Level 1					R-10 (< 0.04%) C Appendix A or or interior?: Exte	.3.7.2		
Mass trans	Wood-framing/joist isfer deck slab edge te mass floor edge -	Is this assembly e A1.01 U-Factor Source: Floor Framing Ty Is this assembly e A1-A3.13 U-Factor Source: Is this assembly e B1-A3.14 Wall Thickness A	WSEC Appendix A pe (Joist, Post & Beam xterior or interior?: Ex WSEC Appendix A xterior or interior?: Ex bove/Below Floor: 8-in Description: Table A10): Wood Joist serior Transfer / Level 1 serior Slab edge / Level 1	I/Level 1		or	U-Factor Source Descr U-Factor Source: WSE	iption: Table A103 R-10 (< 0.04%) CC Appendix A	.3.7.2		

ENVELOPE COMPLIANCE SUMMARY

				Jnsn	lation R-Values			
Opaque Doors	Location in Documents	Assembly ID	Assembly Location	Door Insulation	lation ix-values		U-Factor	Rough Opening (SF)
Swinging	A7.10	Swing door: S1	Exterior				U-0.37	21
	What percentage of thi	is opaque door is glazing?: 50% or less		U-Factor Source: WSE	C Appendix A	•		
	U-Factor Source Descr	ription: Table A107.1(1)		Is this assembly exterio	or or interior?: Ext	erior		
	Is this a public entranc	e door?: Yes		Door enclosed within a	vestibule?: No ve	estibule		
Vertical Fenestration	Location in Documents	Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Opening (SF)
Fixed - Class AW or site built	A7.20	Storefronts: SF1-SF4, SF6, SF9, SF10	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.38	649
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
î.	Is this assembly exterio	or or interior?: Exterior			de	16.	.95	
Fixed - Class AW or site built	A7.20	Storefronts: SF5	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.38	33
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
	Is this assembly exterio	or or interior?: Exterior						
All other fenestration types	A7.20	Non-metal, fixed: P1-L, P1-R, VF2, VF4, VF4A, VF4B, VF5, VF5A, VF6, VF6A	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.18	502
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
	Is this assembly exterio	or or interior?: Exterior						
All other fenestration types	A7.20	Non-metal, fixed: P1-L, VF3, VF3A, VF4, VF4A, VF4B, VF5, VF5A, VF6, VF6A	Exterior	North Facing	PF < 0.2	SHGC-0.38	U-0.18	593
	U-Factor & SHGC Sou	urce: NFRC Rating	U-Factor Source Descr	iption: NFRC Cer	tified			
	Is this assembly exterio	or or interior?: Exterior						
All other fenestration types	A7.20	Non-metal, operable: VO3-L, VO5-L	Exterior	North Facing	PF < 0.2	SHGC-0.38	U-0.18	232
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
	Is this assembly exterio	or or interior?: Exterior						
All other fenestration types	A7.20	Non-metal, operable: VO1-R, VO4A-R, VO4-L, VO4-R, VO5-L, VO5-R, VO6-R	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.18	621
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
	Is this assembly exterio	or or interior?: Exterior	2		ār	16	.30	
All other fenestration types	A7.20	Non-metal, casement: P1-L, P1-R, V1	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.18	101
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
	Is this assembly exterio	or or interior?: Exterior	_					
All other fenestration types	A7.20	Non-metal, casement: P1-L	Exterior	North Facing	PF < 0.2	SHGC-0.38	U-0.18	200
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
Glazed Doors	Is this assembly exterion Location in Documents	or or interior?: Exterior Assembly ID	Assembly Location	Orientation	Shading (PF)	Fenestration SHGC	Fenestration U-Factor	Rough Openin
Swinging entrance door	A7.10	Mtl. Entrance: V2	Interior partition	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.6	(SF) 21
	U-Factor & SHGC Sou	Urce: NER C Rating		U-Factor Source Descr	intion: NERC Rat	L ed		
		or or interior?: Interior partition		C Tactor Source Descr	iprion. 141 Re Rui			
Swinging entrance door	A7.10	Mtl. Entrance: C1, V2, L1	Exterior	South/East/West Facing	PF < 0.2	SHGC-0.38	U-0.6	167
	U-Factor & SHGC Sou	urce: NFRC Rating		U-Factor Source Descr	iption: NFRC Cer	tified		
The state of the s	D. D. 1888 113 113 113 113 113	or or interior?: Exterior		Is this a public entranc	*·			
17	NOTES A MARTINE DE COMPANION DE	a vestibule?: No vestibule		T. Asset Time and				
Skylights	Location in Documents	Assembly ID	Assembly Location			Fenestration SHGC	Fenestration U-Factor	Rough Openin (SF)
All types	A7.20	Skylights: SK-1	Exterior			SHGC-0.35	U-0.50	74
	U-Factor & SHGC Sou		•	U-Factor Source Descr	iption: NFRC Cer	Water Colon		
		or or interior?: Exterior						

..\..\..\.Pavlo SerdechnyňBee Consulting, LLCiProjects - Documents\2022\2210-1003 Rose Hill Mixed-Use\DWG\ENRG\ENVXref_ENRG\2023-0125 for BP\WA energy credits selection 2023-0125.iff



B.E.E. CONSULTING, LLC. 170 W. DAYTON, SUITE 206 EDMONDS, WA 98020



Rose Hill Mixed-Use 3rd & Park Ave

DATE	DESCRIPTION
01.30.2023	Permit Set
PHASE:	

PERMIT SET

BEE PROJECT #: 2210-1003

P.E.: Chad Smith P.M.: Chad Smith ENERGY: Telman Gasanov DRAFTER: Stephen Polledri

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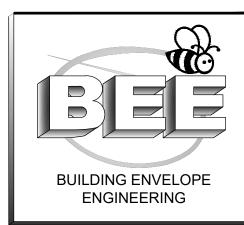
THESE DRAWINGS ARE FOR GENERAL ARRANGEMENT OF MATERIALS ON SITE CONDITIONS GOVERN. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

SHEET NAME:

BUILDING **ENVELOPE ENERGY FORMS**

Project Title	Williams Invest - 7	hird and Park - 2	018 WSEC					Date	Jan 25, 2023			
U x A Cal	lculation		NEW BUIL	DING - FULLY CONDITIO	ONED		•	1	COMPLIES			
		Op aque En	velope Assemblies			PROPOSED			TARGET			
Roof/C	'eiling	100 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Assembly ID		Roof/Ceiling Assembly U- Factor	Net Area (SF)	UxA	Roof/Ceiling Assembly U- Factor	Net Area (SF)	Ī		
	Attic and other		RW1, RW2 / Level	2	0.02	516.0	10.3	0.021	516.0 (1)			
	Attic and other		RW1, RW2 / Level 2			4,195.0	62.9	0.021	4,195.0 (1)			
	Attic and other		RW1, RW2 / Level	2	0.016	1,987.0	31.8	0.021	1,987.0 (1)	Ì		
	Attic and other		RW1 / Level 2		0.017	1,246.0	21.2	0.021	1,246.0	i		
	Attic and other		RE / Roof		0.018	51.0	0.9	0.021	(1) 51.0	i		
	Attic and other		RW1 /Level 2		0.018	275.0	5.0	0.021	(1) 275.0	ł		
	Attic and other		RW1 / Level 2		0.019	43.0	0.8	0.021	(1) 43.0	ì		
	Attic and other		RW2 / Level 2		0.014	503.0	7.0	0.021	(1) 503.0	i		
	Attic and other		RS / Roof		0.014	353.0	4.9	0.021	(1) 353.0	ł		
	Attic and other		RE / Roof		0.014	57.0	ATOMA		(1) 57.0	+		
	Affic and other		RE/R001		0.019	37.0	1.1	0.021	(1)			
Wal	ılls		Assembly ID		Wall Assembly U- factor	Net Area (SF)	UxA	Wall Assembly U- factor	Net Area (SF)			
Wood-fran	med and other - Group R		WX.6 12R, WX.6 11 / Leve	ls 1-Roof	0.052	7,861.0	408.8	0.051	7,861.0 (1)			
Wood-framed	and other - Commercial		WX.6 12R, WX.6 11 / L	evel 1	0.052	308.0	16.0	0.054	308.0 (1)			
Mass (pre	cast concrete) - Group R		C.8 00+SN.2 10 / Park	ing	0.073	529.0	38.6	0.078	529.0 (1)			
Mass (pre	cast concrete) - Group R		C.10 00 / Parking		0.073	339.0	24.7	0.078	339.0 (1)			
Mass (pre	cast concrete) - Group R		Elevator pit		0.080	150.0	12.0	0.078	150.0 (1)			
	WA 550				0.000				1 (1)			
Floors an	ıd Edges		Assembly ID		Floor Assembly U- Factor	Net Area (SF)	UxA	Floor Assembly U- Factor	Net Area (SF)			
	Mass		FC2 / Level 1		0.025	8,878.0	222.0	0.031	8,878.0 (1)			
	Wood-framing/joist		FW1/Level 2		0.029	74.0	2.1	0.029	74.0 (1)			
Mass	s transfer deck slab edge		Transfer / Level 1		0.2	238.0	47.6	0.20	238.0 (1)			
Intermediate ma	ass floor edge - Group R		Slab edge / Level 1		0.088	202.0	17.8	0.078	202.0 (1)			
Intermediate ma	ass floor edge - Group R		Slab edge below grade Commer	cial / Level 1	0.113	54.0	6.1	0.078	54.0 (1)			
		Fenestration and	Opaque Door Assemblies			PROPOSED			TARGET	1		
Opaque	Doors		Assembly ID		Door Assembly U- Factor	Rough Opening (SF)	UxA	Door Assembly U- Factor	Rough Opening (SF)			
	Swinging		Swing door: S1		0.37	21.0	7.8	0.37	21.0 (1)			
Vertical Fer	n estration		Assembly ID		Fenestration Assembly U-	Rough Opening (SF)	UxA	Fenestration Assembly U-	Rough Opening (SF)			
Fixed	d - Class AW or site built		Storefronts: SF1-SF4, SF6, S	SF9, SF10	Factor 0.38	649.0	246.6	Factor 0.38	649.0	+		
(1) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	d - Class AW or site built		Storefronts: SF5		0.38	33.0	12.5	0.38	(1) 33.0	+		
	ovouit	Non-metal	No. 10 House IV Core No. Marshave Angeles-Herberger	JEAD VES VESA VES VESA		502.0	90.4	0.30	(1) 502.0	h		
Δ11	l other fenestration types	Non-metal, fixed: P1-L, P1-R, VF2, VF4, VF4A, VF4B, VF5, VF5A, VF6, VF6A			Astronomonomic reduceronando processo attacto		0.18	· · ·		0.50	(1) 593.0	ı
		\$00,000 (\$00,000 (\$0.0		TOO DOOD, Marie - Honor - Cook - Sentrolle - Too Cook - Sentrolle - Too	0.18	593.0	106.7	0.30	(1)			
All	l other fenestration types	\$00,000 (\$00,000 (\$0.0	fixed: P1-L, VF3, VF3A, VF4, VF4A,	VF4B, VF5, VF5A, VF6, VF6A	0.18	593.0	106.7	0.30	232.0			
All	l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l	VF4B, VF5, VF5A, VF6, VF6A	0.18	232.0	41.8	0.30	232.0 (1) 621.0	1		
All All	l other fenestration types l other fenestration types l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-I operable: VO1-R, VO4A-R, VO4-L, V	VF4B, VF5, VF5A, VF6, VF6A 2, VO5-L 204-R, VO5-L, VO5-R, VO6-R	0.18 0.18 0.18	232.0 621.0	41.8	0.30	232.0 (1)			
All All All	l other fenestration types l other fenestration types l other fenestration types l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L,	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1	0.18 0.18 0.18 0.18	232.0 621.0 101.0	41.8 111.8 18.2	0.30 0.30 0.30	232.0 (1) 621.0 (1) 101.0 (1)			
All All All	l other fenestration types l other fenestration types l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-I operable: VO1-R, VO4A-R, VO4-L, V	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1	0.18 0.18 0.18	232.0 621.0	41.8	0.30	232.0 (1) 621.0 (1) 101.0			
All All All	l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L,	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1	0.18 0.18 0.18 0.18	232.0 621.0 101.0	41.8 111.8 18.2	0.30 0.30 0.30	232.0 (1) 621.0 (1) 101.0 (1) 200.0			
All All All Glazed	l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L, Non-metal, casement: 1	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1	0.18 0.18 0.18 0.18 0.18 0.18 0.18	232.0 621.0 101.0 200.0	41.8 111.8 18.2 36.0	0.30 0.30 0.30 0.30 Door Assembly U-	232.0 (1) 621.0 (1) 101.0 (1) 200.0 (1)			
All All All Glazed	l other fenestration types	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L, Non-metal, casement: I	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1 P1-L	0.18 0.18 0.18 0.18 0.18 0.18 Door Assembly U-Factor	232.0 621.0 101.0 200.0 Rough Opening (SF)	41.8 111.8 18.2 36.0	0.30 0.30 0.30 0.30 Door Assembly U- Factor	232.0 (1) 621.0 (1) 101.0 (1) 200.0 (1) Rough Opening (SF)			
All All All Glazed	l other fenestration types Obors Swinging entrance door	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L, Non-metal, casement: I Assembly ID Mtl. Entrance: V2 Mtl. Entrance: C1, V2	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1 P1-L	0.18 0.18 0.18 0.18 0.18 0.18 Door Assembly U- Factor 0.6	232.0 621.0 101.0 200.0 Rough Opening (SF) 21.0 167.0 Rough Opening	41.8 111.8 18.2 36.0 U x A 12.6 100.2	0.30 0.30 0.30 0.30 Door Assembly U- Factor 0.60 0.60 Skylight	232.0 (1) 621.0 (1) 101.0 (1) 200.0 (1) Rough Opening (SF) 21.0 (1) 167.0 (1) Rough Opening			
All All All	l other fenestration types Ooors Swinging entrance door Swinging entrance door	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L, Non-metal, casement: I Assembly ID Mtl. Entrance: V2 Mtl. Entrance: C1, V2 Assembly ID	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1 P1-L	0.18 0.18 0.18 0.18 0.18 0.18 Door Assembly U- Factor 0.6 0.6 Skylight Assembly U- Factor	232.0 621.0 101.0 200.0 Rough Opening (SF) 21.0 167.0 Rough Opening (SF)	41.8 111.8 18.2 36.0 U x A 12.6 100.2	0.30 0.30 0.30 0.30 Door Assembly U- Factor 0.60 0.60 Skylight Assembly U- Factor	232.0 (1) 621.0 (1) 101.0 (1) 200.0 (1) Rough Opening (SF) 21.0 (1) 167.0 (1) Rough Opening (SF) 74.0			
All All All Glazed	l other fenestration types Obors Swinging entrance door	Non-metal,	fixed: P1-L, VF3, VF3A, VF4, VF4A, Non-metal, operable: VO3-l operable: VO1-R, VO4A-R, VO4-L, V Non-metal, casement: P1-L, Non-metal, casement: I Assembly ID Mtl. Entrance: V2 Mtl. Entrance: C1, V2	VF4B, VF5, VF5A, VF6, VF6A L, VO5-L VO4-R, VO5-L, VO5-R, VO6-R P1-R, V1 P1-L	0.18 0.18 0.18 0.18 0.18 0.18 Door Assembly U-Factor 0.6 0.6 Skylight Assembly U-	232.0 621.0 101.0 200.0 Rough Opening (SF) 21.0 167.0 Rough Opening	41.8 111.8 18.2 36.0 U x A 12.6 100.2	0.30 0.30 0.30 0.30 Door Assembly U- Factor 0.60 0.60 Skylight Assembly U-	232.0 (1) 621.0 (1) 101.0 (1) 200.0 (1) Rough Opening (SF) 21.0 (1) 167.0 (1) Rough Opening (SF)			

Project Title Williams	Invest - T	hird and Park - 2018 WSEC	ird and Park - 2018 WSEC					Date	Jan 25, 2023				
SHGC x A Calculatio	1		NEW BUILDING - FULLY CONDITIONED							COMPLIES			
		Fenestration and Opaque Door Assen	nblies			PROPOSED			TARGET				
Glazed Doors - South/East/West	Facing	Assembly ID			Glazed Door SHGC	Rough Opening (SF)	SHGC x A	Glazed Door SHGC	Rough Opening (SF)	SHGC x A			
Swinging e	ntrance door	Mtl. Entrance: V2			0.38	21.0	8.0	0.38	21.0 (1)	8.0			
Swinging e	ntrance door	Mtl. Entrance: C1, V2, L1			0.38	167.0	63.5	0.38	167.0 (1)	63.5			
Horizontal		Assembly ID			Skylight SHGC	Rough Opening (SF)	SHGC x A	Skylight SHGC	Rough Opening (SF)	SHGC x A			
	Skylights	Skylights: SK-1			0.35	74.0	25.9	0.35	74.0 (1)	25.9			
Vertical Fenestration - North I	acing	As	PF	Fenestration SHGC	Rough Opening (SF)	SHGC x A	Fenestration SHGC	Rough Opening (SF)	SHGC x A				
All other fenes	ration types	Non-metal, fixed: P1-L, VF3, VF3A, VF4, VF4A, VF4B, VF5, VF5A, VF6, VF6A			0.38	593.0	225.3	0.51	593.0 (1)	302.4			
All other fenes	ration types	Non-metal, op	perable: VO3-L, VO5-L	PF < 0.2	0.38	232.0	88.2	0.51	232.0 (1)	118.3			
All other fenes	ration types	Non-met	al, casement: P1-L	PF < 0.2	0.38	200.0	76.0	0.51	200.0 (1)	102.0			
Vertical Fenestration - South/East/V	est Facing	A	ssembly ID	PF	Fenestration SHGC	Rough Opening (SF)	SHGC x A	Fenestration SHGC	Rough Opening (SF)	SHGC x A			
Fixed - Class AW	or site built	Storefronts: SI	F1-SF4, SF6, SF9, SF10	PF < 0.2	0.38	649.0	246.6	0.38	649.0 (1)	246.6			
Fixed - Class AW	or site built	Stor	refronts: SF5	PF < 0.2	0.38	33.0	12.5	0.38	33.0 (1)	12.5			
All other fenes	ration types	Non-metal, fixed: P1-L, P1-R, VF2, VF4, VF4A, VF4B, VF5, VF5A, VF6, VF6A			0.38	502.0	190.8	0.38	502.0 (1)	190.8			
All other fenes	ration types	Non-metal, operable: VO1-R, VO4A-R, VO4-L, VO4-R, VO5-L, VO5-R, VO6-R			0.38	621.0	236.0	0.38	621.0 (1)	236.0			
All other fenes	ration types	Non-metal, ca	sement: P1-L, P1-R, V1	PF < 0.2	0.38	101.0	38.4	0.38	101.0 (1)	38.4			
		Proposed Area	Proposed SHGC x A			Target Area		Tar	get SHGC x A				
Project Totals		3,193	1,211			3,193			1,344				



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Rose Hill Mixed-Use 3rd & Park Ave Mukilteo, WA

DATE	DESCRIPTION
01.30.2023	Permit Set
DUACE.	
PHASE:	

PERMIT SET

BEE PROJECT #: 2210-1003

P.E.: Chad Smith P.M.: Chad Smith ENERGY: Telman Gasanov DRAFTER: Stephen Polledri

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SHEET NAME:

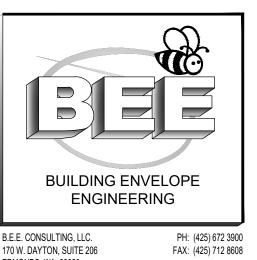
BUILDING ENVELOPE ENERGY FORMS

Building Envelope Requirements List, pg 1 of 8 2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserved The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Washington State Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com						Building Envelope Requirements List, pg 3 of 8 2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2023 NEEA, All The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Wash Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycode					
3RD & P/		Park - 2018 WSEC		··	Date: 2023-01-25	NA	C402.2.1.1	Skylight curb insulation	Indicate skylight curb insulation R-value on roof section, if not included in skylight NFRC rating		
pplies	Code Section	Component	Compliance Information Required In Permit	Location in	Building Department	NA	C402.2.1.2	Rooftop HVAC equipment curbs	Indicate rooftop HVAC equipment curb insulation R-value on roof section		
COPE			Documentation	Documents	Notes	YES	C103.2 C402.2.3	Above/below grade wall insulation	Indicate R-value(s) of cavity/continuous insulation on wall sections	A1.00, BE900's	
NA .	C103.1	Construction documents - General	For a tenant space (first build-out) project, indicate if there is no envelope scope included in the project.			YES YES	C402.2.4 C303.2.1			Indicate framing materials on wall sections Indicate method of framing for wood	A1.00, BE900's A1.00, BE900's
JA	C103.1	Construction documents - General	For an alteration project, indicate if there is no envelope scope included in the project.			NA			construction per A103.2 (std, int, adv) Indicate material density category, wall weight and heat capacity for qualifying mass walls		
NA	C402.1.1.1	Low energy spaces	Identify low energy spaces on plans; include calculations if applicable that demonstrate eligibility for envelope provisions exemption			NA			For qualifying ASTM C90 masonry walls, indicate loose-fill core insulation material and percentage of cores filled including grouted		
NA .	C402.1.1.2	Semi-heated spaces	Identify semi-heated spaces on plans, include mechanical heating system type and calculations that demonstrate eligibility for wall insulation exemption			NA			cores, bond beams, vertical fills, headers and any other grouted cores Indicate method of protection of exposed		
NA	C402.1.1.3	Greenhouse spaces	Identify greenhouse spaces on plans; include non-opaque assembly information and mechanical heating system type if applicable, that demonstrates eligibility for envelope provisions exemption			NA	C103.2 C402.4.4	Opaque doors	exterior basement/crawlspace wall insulation Indicate rated U-factor or R-value (non-swinging) on wall sections or in door schedules - applies to doors with less than 50% glazed area		
NA	C402.1.2	Equipment buildings	Provide building sf area, average wall and roof U-factor, installed electrical and mechanical equipment information and heating setpoint restriction, that demonstrates eligibility for envelope provisions exemption			NA	C402.4.4	Garage doors	Indicate rated U-factor for sectional and tilt- up garage doors on wall sections or in door schedules - applies to garage doors with less than 14% glazed area; all other garage doors shall comply as opaque doors		
JА	C402.1.2.1	Standalone elevator hoistways	Provide building area, average wall and roof U-factor, installed mechanical equipment			YES	C402.2.5	Floor over outdoor or unconditioned space	Indicate R-value(s) of cavity/continuous insulation on floor sections	A1.01, BE900's	
		noistwuys	information and heating setpoint restriction, that demonstrates eligibility for envelope			YES		insulation	Indicate framing material on floor sections	A1.01, BE900's	
	2775		provisions exemption			NA			Indicate material density category and weight of qualifying mass floors		
IΑ	C410.2	Walk-in cooler and freezer spaces	Identify walk-in cooler and freezer spaces on plans; including site assembled, site constructed and prefabricated units			NA	C402.2.6 C303.2.1	Slab-on-grade floor insulation	Indicate R-value of continuous insulation on wall section or foundation detail		
ĪΑ			Identify warehouse cooler and freezer spaces on plans.			NA			Indicate insulation extends down vertically and/or horizontally the required distance from top of slab		
IA .	C101.4.1	Mixed residential & commercial building	Identify spaces with different occupancy requirements on plans			NA			Indicate method of protection of exposed exterior slab edge insulation		
NA .	C503.2	Change of space conditioning alteration	Identify on plans existing unconditioned spaces changing to semi-heated or conditioned space, and existing semi-heated spaces changing to conditioned space; provide			NA NA			Indicate R-value of continuous insulation on wall section or foundation detail Indicate insulation extends down vertically		
NA	C505.1	Change of occupancy	calculations for existing and final level of space conditioning Identify on plans existing F, S and U-						from top of slab and then horizontally under the entire slab		
3.2-3	C5V3.1	alteration	occupancy spaces undergoing a change in occupancy and final occupancy type			NA			Indicate method of protection of exposed exterior slab edge insulation		

3uildin	g Envelop	e Requireme	nts List, pg 2 of 8		Buildir	g Envelop	e Requireme	nts List, pg 4 of 8			
he following nergy Code,	nformation is neces Commercial Provisi	sary to check a building poons.	ing Group R2, R3 & R4 over 3 stories & all R1 — ermit application for compliance with the building Technical Support at 360-539-5300 or via email a	-	2018 WSEC Requirements for Commercial Buildings including Group R2, R3 & R4 over 3 stories & all R1 — Administered by ©2023 NEEA, All rights res The following information is necessary to check a building permit application for compliance with the building envelope requirements in the Washington St Energy Code, Commercial Provisions. For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com						
NA			Group R spaces permitted before July 1, 2002 that are undergoing a change to a commercial occupancy shall be identified on plans		NA	C402.2.8	Radiant heating system insulation	Indicate insulation R-value behind radiant panels, U-bend/headers and bottom surface of radiantly heated floors (other than heated slabon-grade)			
NA			Commercial (non-Group R) occupancy spaces undergoing a change to Group R shall be identified on plans		YES	C402.4.1 C502.2.1	Vertical fenestration maximum area	Provide total gross sf area of all above grade wall elements and rough opening sf area of all	A7.10, A7.20, BE900's		
NVELOP.	E PROVISIONS							vertical fenestration elements in the building, for the prescriptive max allowed window-to-			
YES	C103.2 C103.6.3 C402.1.3 C402.1.4	Compliance documentation	Indicate envelope thermal performance compliance path (prescriptive or component performance) and provide WSEC envelope compliance reports	BE900's				wall ratio (WWR) calculation in the WSEC envelope compliance reports; demonstrate compliance for each space conditioning category separately			
YES	C402.1.5		If complying via component performance, demonstrate that the Proposed Total UA is equal to or less than the Allowable Total UA	BE900's	NA	C402.4.1.1 C405.2.4.1 C502.2.1	Increased prescriptive I maximum vertical fenestration area with	Provide calculations showing that not less that 50% of the total conditioned floor area is within a daylight zone; demonstrate compliance for each space conditioning			
NA			If complying via total building performance, provide a list of all proposed envelope component types, areas and U-values		NA		controls	Indicate in envelope plans that all lighting fixtures located within daylight zones shall be			
YES	C303.1.1 C303.1.2	Insulation identification	Indicate identification mark shall be applied to all insulation materials and insulation installed such that the mark is readily	A1.00, A1.01, BE900's				provided with daylight responsive controls per Section C405.2.4.1			
YES	C303.1.3	Fenestration product	observable during inspection Indicate fenestration products shall be labeled	A7.10, A7.20,	NA			Indicate that the VT of vertical fenestration is at least 1.1 times the rated SHGC or no less than VT-0.55, whichever is greater			
	C402.4.3	rating	with NFRC U-factor, SHGC, VT and leakage rating, or if products do not have an NFRC rating, indicate applicable Chapter 3 default values		NA	C402.4.1.3 C502.2.1	Increased prescriptive maximum vertical fenestration area with	Indicate high performance U-factors and SHGC values in fenestration schedules			
YES	C303.1.1 C402.2.1	General insulation installation	Indicate installation methods, thicknesses, densities and clearances to achieve the intended R-value of all insulation materials	A1.00, A1.01, BE900's	NA		high-performance glazing	Indicate if an area-weighted U-factor is used for multiple fenestration elements within the same fenestration category per Table C402.4; provide area-weighted U-factor calculation			
NA			Where two or more layers of rigid insulation will be used, indicate that edge joints between layers are staggered, or exception taken	A1.00, A1.01, BE900's	NA	C402.1.5	Wall/vertical fenestration target area adjustment	Indicate if component performance with target area adjustment will be used to account for vertical fenestration area in excess of the prescriptive maximum allowed; include target			
YES	C103.2 C402.2.1	Roof assembly insulation	Indicate R-value(s) of cavity/continuous insulation on roof sections	A1.01, BE900's				area adjustment in WSEC envelope compliance reports			
YES			Indicate framing materials on roof sections	A1.01, BE900's	NA	C402.4.1	Skylight maximum	Provide total gross sf area of roof, and rough			
YES			Indicate method of framing for ceilings below vented attics and vaulted ceilings per A102.2 (std, adv)	A1.01, BE900's		C502.2.2	area	opening sf area of all skylight elements in the building, for the prescriptive max allowed skylight-to-roof ratio (SRR) calculation in the WSEC envelope compliance reports;			
NA			Provide area weighted average U-factor calculation for insulation whose thickness varies by 1 inch or less		NT A	C402 1 5 2	Drof/stalishe	demonstrate compliance for each space conditioning category separately			
NA			Indicate effective U-factors of tapered insulation entirely above deck per A102.2.6; include roof configuration and slope, maximum R-value at peak and minimum R-value at low point for all roof surfaces		NA	C402.1.5.2	Roof/skylight target area adjustment	Indicate if component performance with target area adjustment will be used to account for skylight area in excess of the prescriptive maximum allowed; include target area adjustment in WSEC envelope compliance reports			
NA			Indicate R-values for thermal spacers and each insulation layer, and liner system (LS) method for metal building roofs		YES	C402.4 C402.4.3.4 C303.1.3	U-factors, SHGC and VT for all fenestration assemblies	Indicate U-factors, SHGC and VT values in fenestration schedules	A7.10, A7.20, BE900's		

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B.E.E. CONSULTING, LLC. 170 W. DAYTON, SUITE 206 EDMONDS, WA 98020



Rose Hill Mixed-Use 3rd & Park Ave Mukilteo, WA

DESCRIPTION
Permit Set

PERMIT SET

BEE PROJECT #: 2210-1003

P.E.: Chad Smith P.M.: Chad Smith ENERGY: Telman Gasanov DRAFTER: Stephen Polledri

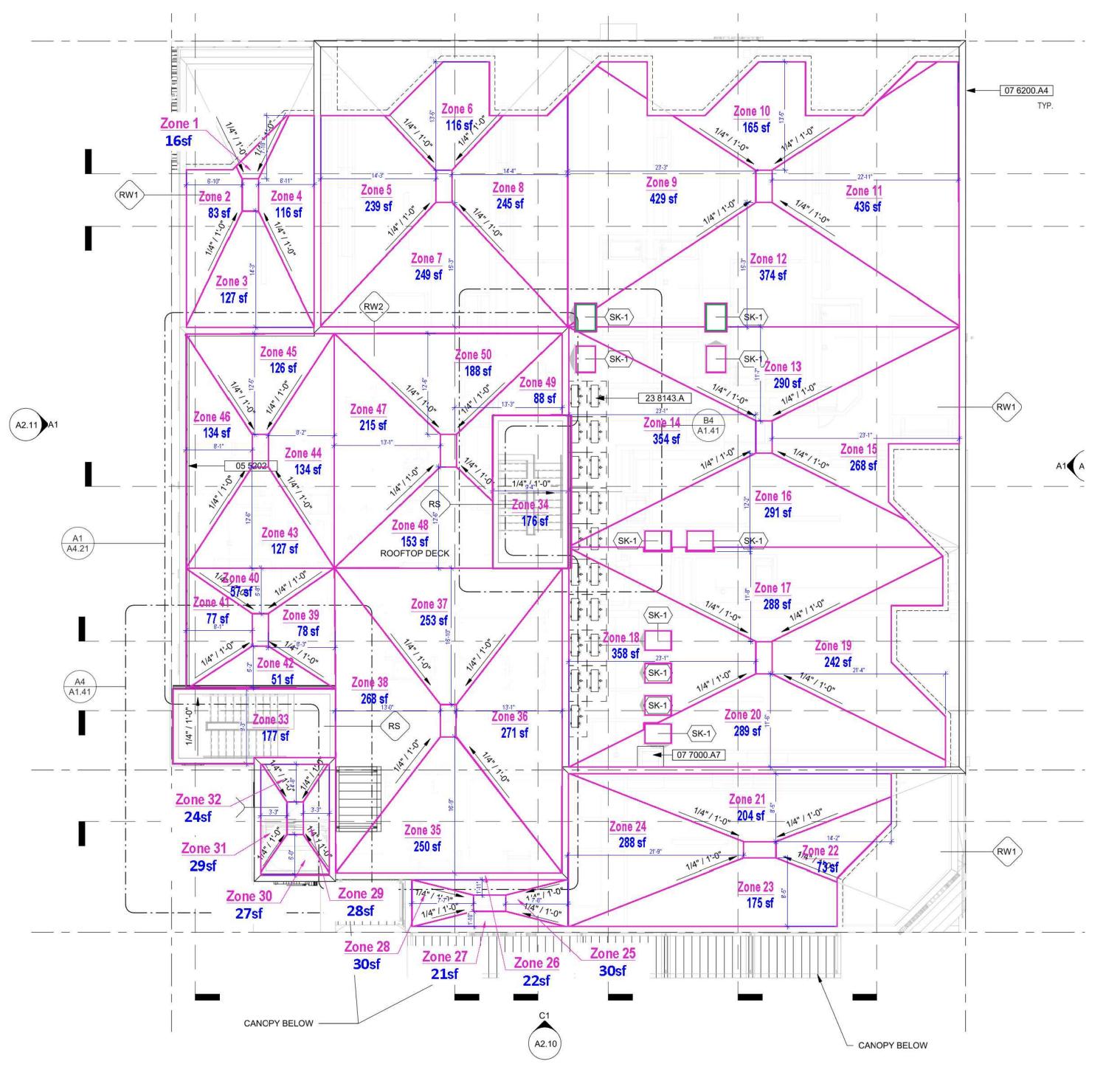
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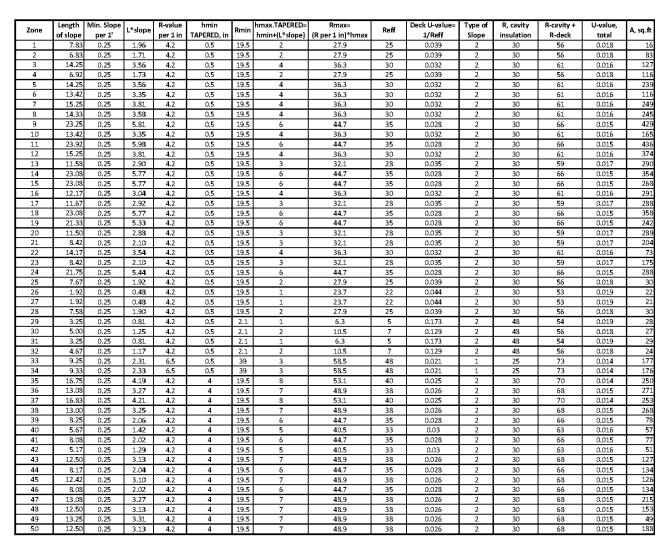
THESE DRAWINGS ARE FOR GENERAL ARRANGEMENT OF MATERIALS ON SITE CONDITIONS GOVERN. DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONS.

SHEET NAME:

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BUILDING **ENVELOPE ENERGY FORMS**







PLAN VIEWS WERE TAKEN FROM ARCHITECTURAL SET DATED 12.27.2022, THEY ARE DIAGRAMMATIC AND SHOULD NOT BE USED FOR MATERIAL TAKE-OFFS. FINAL BUILDING PLANS SHOULD BE VERIFIED.



FAX: (425) 712 8608

B.E.E. CONSULTING, LLC. 170 W. DAYTON, SUITE 206 EDMONDS, WA 98020



Rose Hill Mixed-Use 3rd & Park Ave

DESCRIPTION
Permit Set

PERMIT SET

BEE PROJECT #: 2210-1003

P.E.:	Chad Smith
P.M.:	Chad Smith
ENERGY:	Telman Gasanov
DRAFTER:	Stephen Polledri

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SHEET NAME:

BUILDING ENVELOPE ENERGY FORMS

SHEET NUMBER:

BE904