3117 NE I33RD St. SEATTLE, WASHINGTON EARLY DESIGN GUIDANCE

11/15/2013 DPD PROJECT # 3015903

3117 A 3117 B



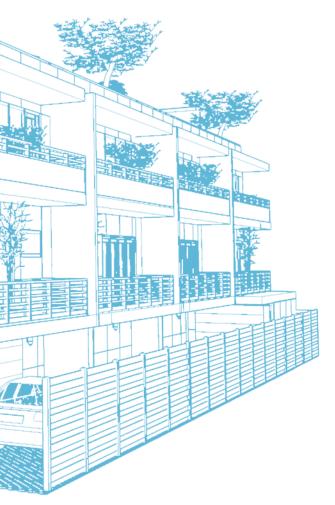


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APPENDIX:

Metro Bus Schedules.pdfi - xx



SITE ANALYSIS

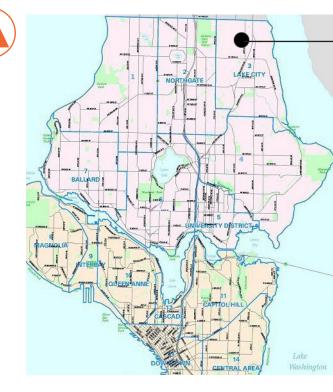


The site is located three blocks north of the Lake City Hub Urban Village, I/2 block west of Lake City Way. The site is in a commercial zone (CI-40), with approximately 3.5' on the west side of the lot in a single family (SF-7200) zone.

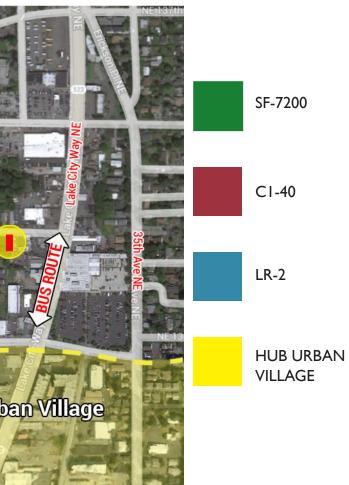
The side streets are mostly unimproved, and the traffic there is quite light. Lake City way is a main arterial, heavily trafficked, with good pedestrian access. There are several frequently serviced bus stops within walking distance. The transit study (pages 19-20) demonstrates that onsite parking can be reduced by 50%.

The neighborhood is a mix of older warehouse/manufacturing buildings in the commercial zone, and single family houses with large lots in the residential zone. The site is close to restaurants and businesses on Lake City Way as well as within easy access of major arterials providing access to downtown, the University District and other areas of the city. It will also serve as an attractive buffer to the ugly manufacturing concerns that border the neighborhood.

NE 184th St NE 184



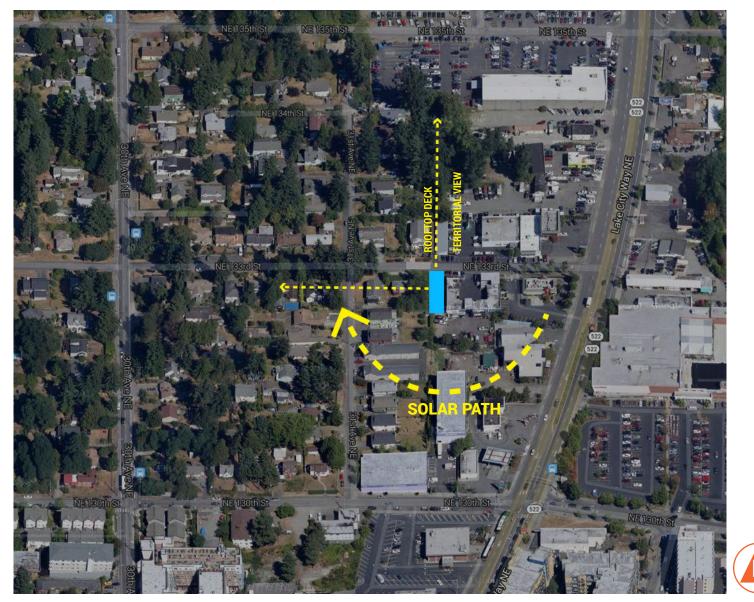




LAKE CITY



SITE CONDITIONS



VIEWS- SOLAR PATH-MAIN ARTERIALS



SITE TREE CANOPY COVERAGE

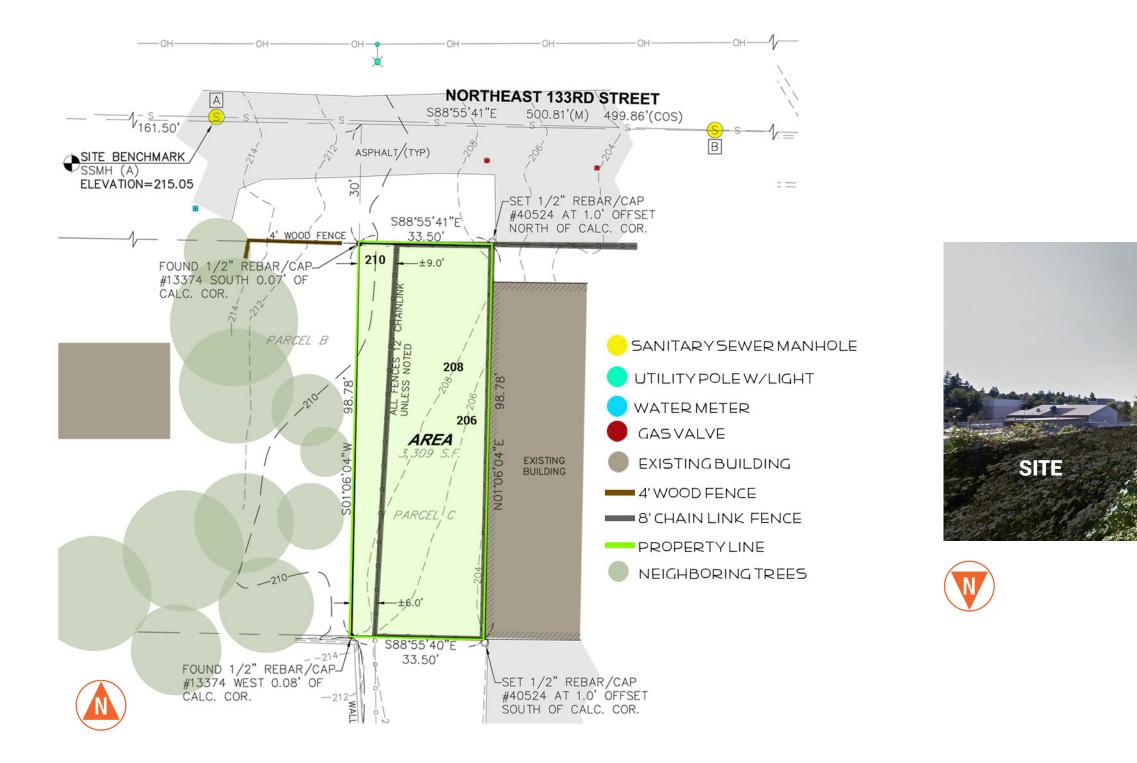
The site slopes approximately 4 feet from the southeast corner to the northwest corner. The site is covered with underbrush, mostly blackberries. Parcel B to the west is covered by brush and native trees with a one story house beyond. There is an existing building on the property line to the east. This is an unattractive cement block structure housing a roofing business. Directly north of the site, across the street is Puget Sound Refrigeration. There are two single family to the west of this. The street is unimproved, with no sidewalks.

The tree canopy is dense to the west and north of the site. Planned rooftop gardens will create a transition from the wooded neighborhood to the barren strip lining Lake City Way.





SITE CONDITIONS

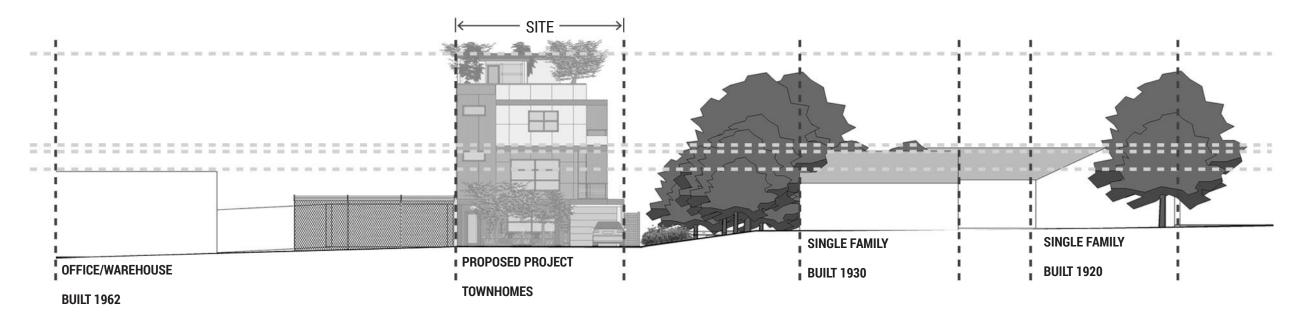




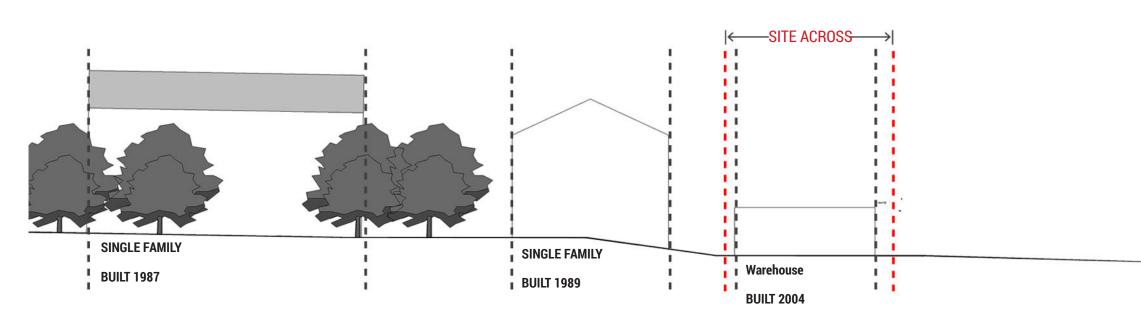




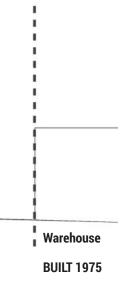
NEIGHBORHOOD BUILDING analysis



NE 133RD ST. LOOKING SOUTH



NE 133RD ST. LOOKING NORTH

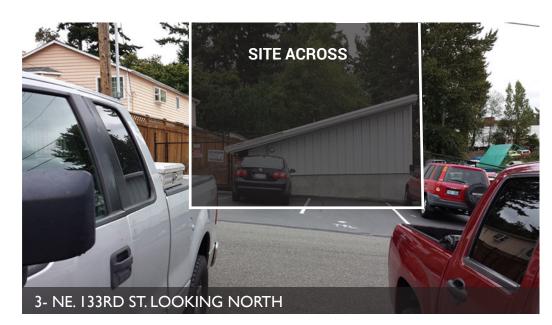




NEIGHBORHOOD PHOTOS





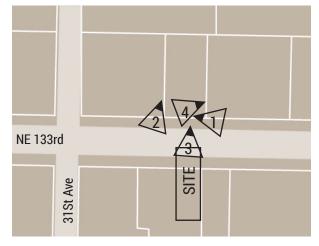








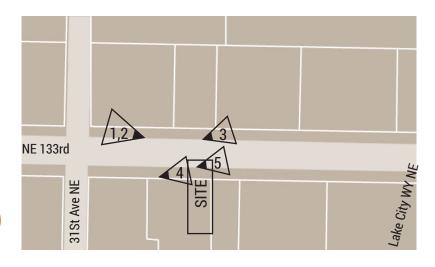








NEIGHBORHOOD PHOTOS





4- NE. 133RD ST. LOOKING SOUTHWEST

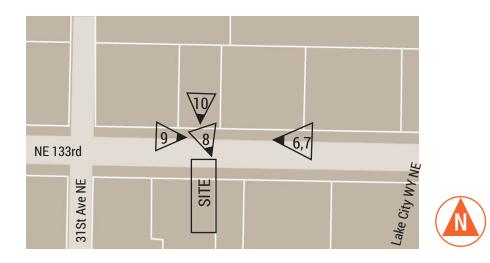


3- NE. 133RD ST. LOOKING WEST

N





















NEIGHBORHOOD PHOTOS



DEVELOPMENT OBJECTIVES

The proposed development will create 4 townhomes, 2 with onsite parking. The street facing unit will provide street trees and a pedestrian sidewalk The rooftops of all units will provide amenity space with rooftop gardens. All walkways and driveway will have permeable pavement. Parking requirements can be reduced by 50% due to frequent bus service. This development will provide affordable housing in a quiet neighborhood, while also being within walking distance of the Lake City Hub Urban Village and is accessible to major arterials providing access to downtown, the University District and other areas of the city.

DEVELOPMENT STATISTICS SUMMARY

SITE ADDRESS:

3117 NE 133RD ST. SEATTLE, WA 98125 **DPD PROJECT** # 3015903

PROJECT AREA:

TOTAL LOT SIZE: 3308 SF BUILDING FOOT PRINT: 2086 SF TOTAL FLOOR SPACE: 6464 SF ALLOWABLE FAR: 3 PROPOSED FAR: 2 PARKING: 2 CAR PORTS UNIT 1: 1542 ST UNIT 2: 1619 SF UNIT 3: 1619 SF UNIT 4: 1684 SF **BUILDING HEIGHT: 37 FT**

LEGAL DESCRIPTION:

PARCEL C OF CITY OF SEATTLE SHORT PLAT NO. 2200304 ACCORDING TO THE SHORT PLAT THEREOF RECORDED UNDER AUDITOR'S FILE NO. 20021212900013, RECORDS OF KING COUNTY, WASHINGTON. SUBJECT TO EASEMENTS, RESTRICTIONS, CONDITIONS AND COVENANTS OF RECORD, IF ANY



CONCEPTUAL MODEL: VIEW FROM NORTHWEST CORNER





DESIGN GUIDELINES

A-SITE PLANNING

A-I RESPOND TO SITE CHARACTERISTICS

The design guidelines state that the development should reflect rather than obscure the natural topography. The site is basically flat, with a four foot difference of elevation diagonally across the site. The site is covered by scrub and blackberries, there is no significant or important vegetation to be preserved.

A-2 STREETSCAPE COMPATIBILITY

The Design Guidelines state that reinforcing the pedestrian streetscape and protecting public view corridors are particularly important. The proposed project will not obscure any available view of the vicinity. The building will take full advantage of natural sunlight, and its shadow impact will be mainly on the east adjacent warehouse. (See Sun Studies p.18)

A-3 ENTRANCES VISIBLE FROM STREET

Unit A will have its entrance facing the street. There will be clearly identifiable signage showing the location of the entrances to the other units.

A-4 HUMAN ACTIVITY

The project will provide a sidewalk across the front perimeter, as well as landscaping, providing a welcoming access for pedestrians.

A-5 RESPECT FOR ADJACENT SITES

The building is at a lower elevation than the residences to the west, in addition there are existing trees that will provide screening. An eight foot fence at the west perimeter blocks all coming and going activity at the site.

A-6 TRANSITION BETWEEN RESIDENCE AND STREET

Right of way landscaping, followed by a pedestrian sidewalk, and a courtyard garden, transitions Unit A from the quiet, facing street.

A-7 RESIDENTIAL OPEN SPACE

Residential open space is provided by the roof top gardens. Deck surfaces, planting boxes and anchoring trees will be provided for each unit.

A-8 PARKING AND VEHICLE ACCESS

The car ports and driveway are not visible to the neighboring residential sites. In addition the driveway and fence provides a buffer to the neighboring properties.

B- HEIGHT BULK AND SCALE

B-I HEIGHT, BULK, AND SCALE COMPATIBILITY

The proposed building is significantly taller than surrounding residential structures, but does create an attractive barrier to ugly commercial buildings on commercial side. Existing tall pines help to alleviate this height difference.

C-ARCHITECTURAL ELEMENTS AND MATERIALS

C-I ARCHITECTURAL CONTEXT

The neighborhood has no architectural consistency, structures vary from ugly commercial, to mid century homes to 1980's residential.

C-2 ARCHITECTURAL CONCEPT AND CONSISTENCY Through color, vertical separations, and rooftop overhangs, the basically rectangular building is articulated and defined to fit elegantly into the surrounding area.

C-3 HUMAN SCALE

Windows are grouped together, with small multiple panes of glass. The street facing unit has a garden courtyard and covered entry. Roof deck gardens provide intimate human outdoor spaces. Units are separated by vertical elements. Second floor balcony provides weather protection for pedestrians.

C-4 EXTERIOR FINISH MATERIALS

The exterior finish materials will be a combination of fiber cement panels and corrugated steel. The fiber cement panels will be $4' \times 4'$. The bottom story will be a dark brown, second story a medium brown, and top story a light tan to ground the structure and create a lighter feeling. The overhangs will be a darker color, creating bands that separate the stories. Rust colored corrugated steel will separate the units and provide articulation.

D-PEDESTRIAN ENVIRONMENT

D-1 PEDESTRIAN OPEN SPACES AND ENTRANCES Unit A has a street facing covered entry with an attractive garden area.

Tile walkways and permeable paved driveway create accented walking and pavement surfaces.

Sidewalk trees and landscaping softens the zone where the building meets the sidewalk.

Tiled walkways create a visible pedestrian access into the site from the public sidewalk.

Pedestrian scaled lighting is provided on the ground floor.

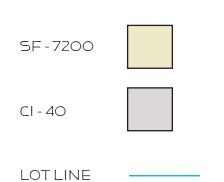
E- LANDSCAPING

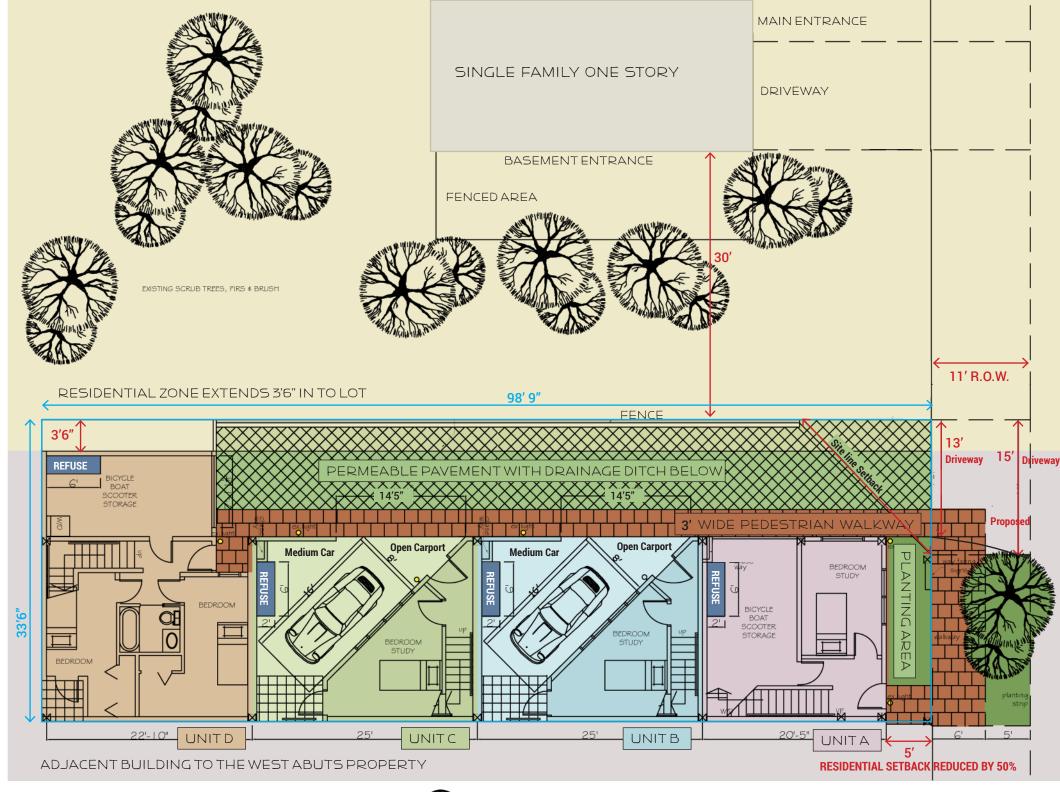
Landscaping is provided on the street and in front of unit A. In addition there will be vines that cover the separating fence. Rooftop gardens provide greenery and outdoor space for each individual unit.





SITE PLAN

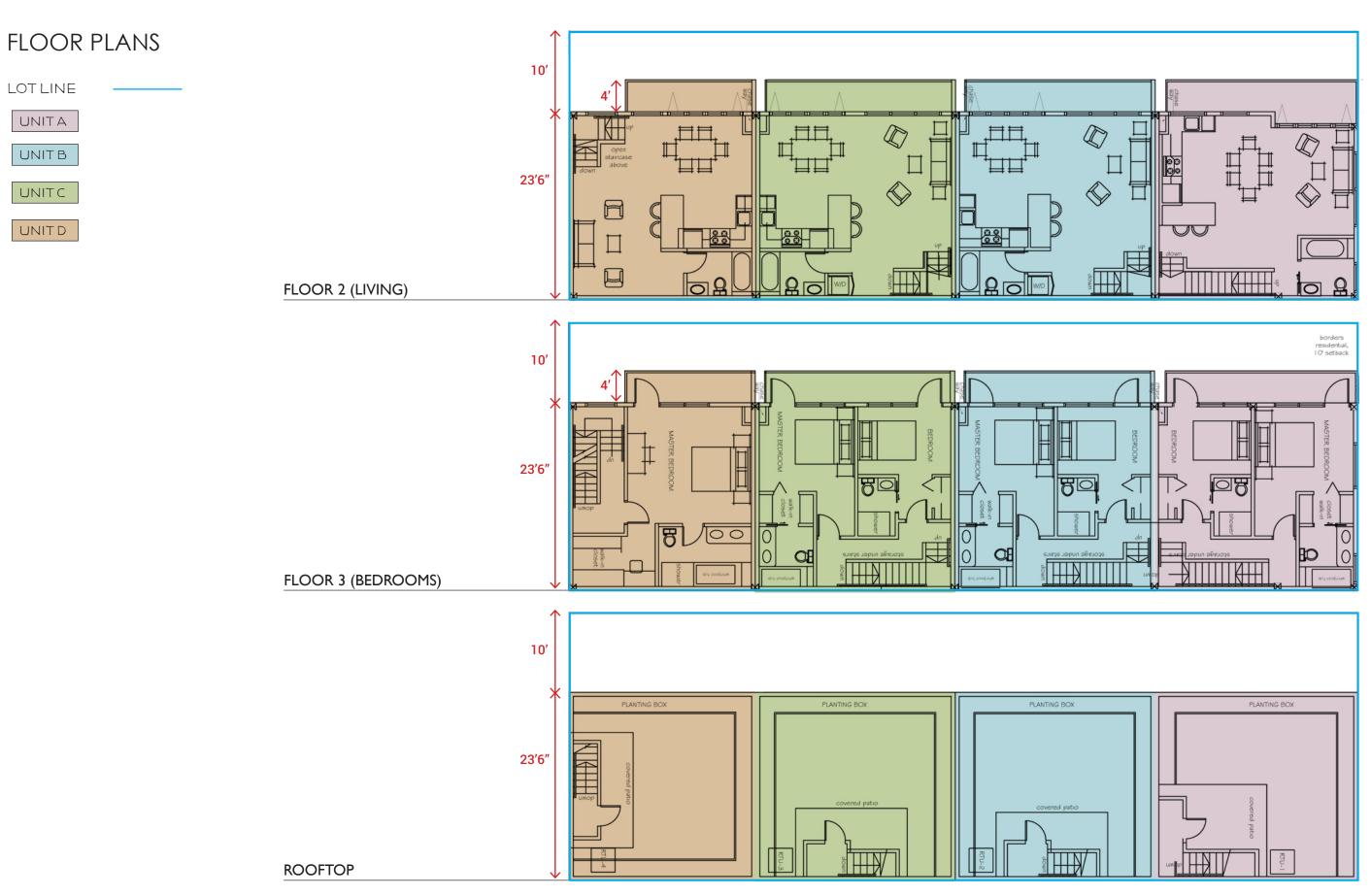














UNITA

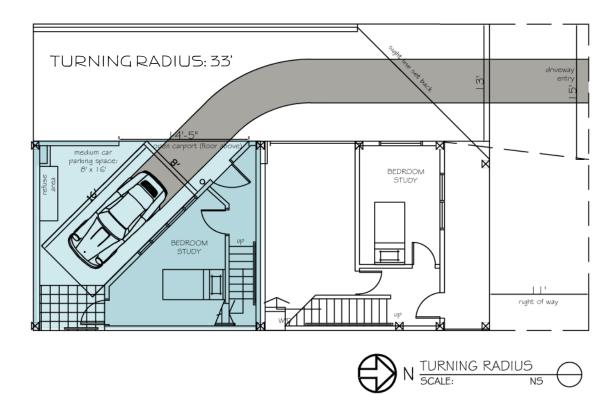
UNITB

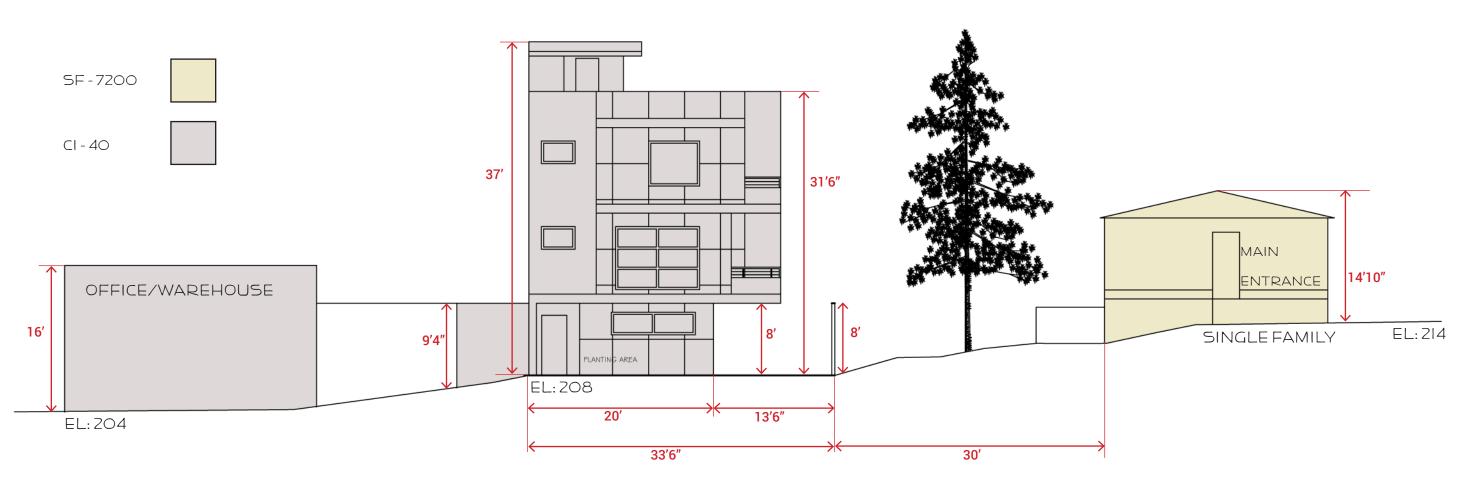
UNITC

UNITD



SITE ELEVATION/TURNING RADIUS









ARCHITECTURAL RESPONSE TO GUIDELINES



FRONT VIEW



FROM NW CORNER

The long, narrow, building has an attractive front view, with a garden entry and street trees which creates a facade that will not overpower neighboring structures.

The west facing facade that is visible to neighboring single family residences is articulated to create individual residences. This facade is separated from the neighboring residences by existing tall trees, and a high fence.

The east facade that faces existing commercial enterprises has no windows or openings, but creates visual interest through color and juxtaposition of materials.



FROM EAST (NEXT TO COMMERCIAL)



1405 Boylston Ave. Seattle, WA 98122 / Tel: 206.322.4323 / Email: office@catchstudio.com / Website: www.catchstudio.com



FROM S W CORNER



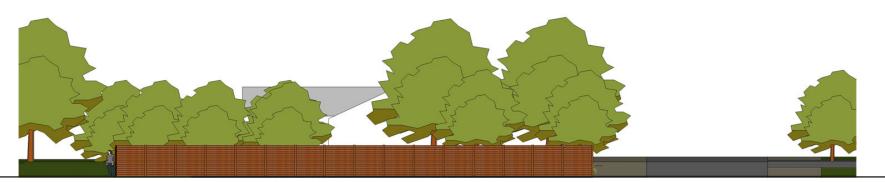
ARCHITECTURAL RESPONSE TO GUIDELINES



Existing trees create a buffe development.

Lake City Way.

LOOKING EAST FROM NEIGHBORING SINGLE FAMILY



LOOKING WEST TOWARDS NEIGHBORING SINGLE FAMILY



LOOKING WEST FROM LAKE CITY WAY NE



Existing trees create a buffer between single family houses and the

Patterns and colors on the east facade creates interest to the view from



ARCHITECTURAL RESPONSE TO GUIDELINES (DETAILS)



ENTRANCE TO INTERIOR UNITS



PEDESTRIAN APPROACH FROM EAST







BALCONIES





ROOFTOP GARDENS





PEDESTRIAN APPROACH FROM WEST

DEPARTURES

SET BACK REQUIREMENTS

Lindsay King confirmed that the 10' residential setback requirement of SMC 23.47A.008 D2 may be reduced by up to 50% through the SDR review process per SMC 23.41.018 D4. To meet the intent of City Adopted Design Guidelines, the reduced setback width provides a quality semi-private buffer area between the unit and the street. The setback area includes a short landscape retaining area 2' wide that separates the private space from the street property line.

PARKING REQUIREMENTS

The site is not mapped as a frequent transit service corridor in GIS but an analysis is provided for review according to the standards of DR 11-2012. The site qualifies as a frequent transit service corridor, parking can be reduced by up to 50% per SMC 23.54.020 F2. (See pages 19-20 and appendix for analysis).

The two parking spaces are exempt from the 50 ft. max. backing requirement, meeting backing standards listed in SMC 23.54.030 C2.





SUN STUDIES



JUNE 21ST - 9AM



JUNE 21ST - NOON



SUMMER SOLSTICE JUNE 21ST - 3PM



MARCH/SEPTEMBER 23RD - 9AM



MARCH/SEPTEMBER 23RD - NOON



EQUINOX

MARCH/SEPTEMBER 23RD - 3PM





DECEMBER 21ST - 9AM



DECEMBER 21ST - NOON

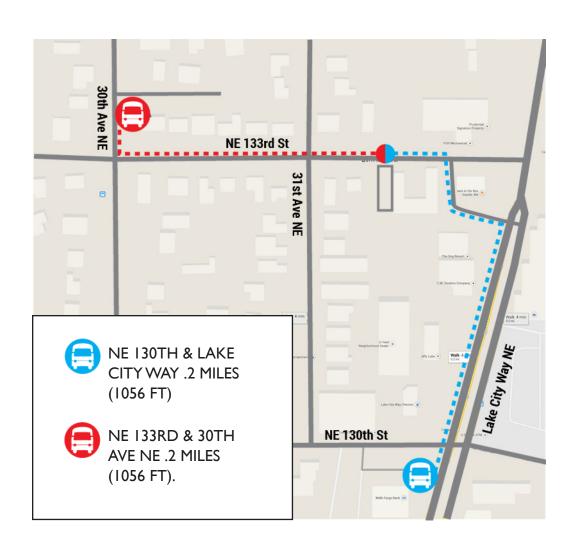


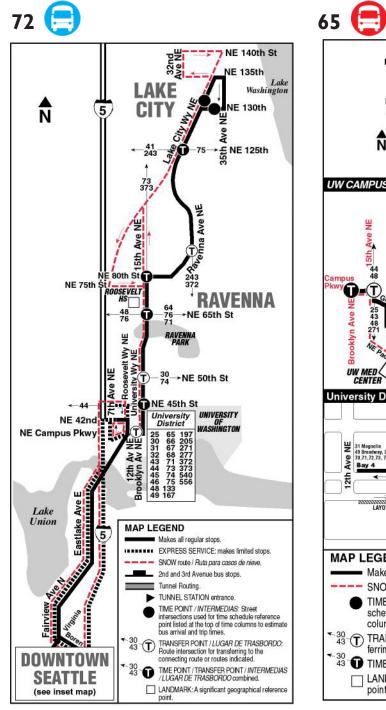
WINTER SOLSTICE

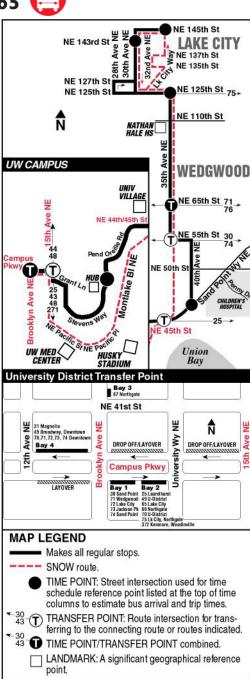
DECEMBER 21ST - 3PM



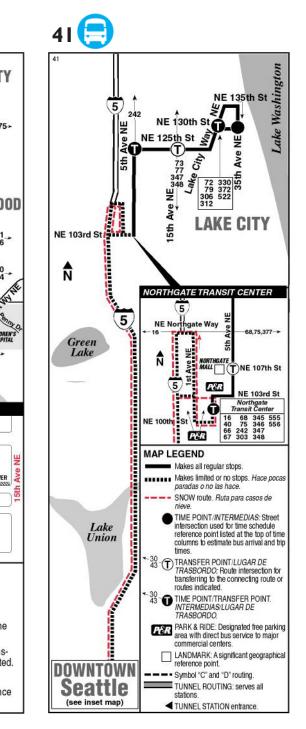
TRANSIT STUDY













TRANSIT STUDY

STOPS WITHIN 1/4 MILE OF 3117 NE 133RD ST



NE 130TH & LAKE CITY WAY .2 MILES (1056 FT)

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NE 133RD & 30TH AVE NE .2 MILES (1056 FT).

Weekdays Time of Day	/		4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
Route	Direction	Stop							Fre	que	ncy																
41	S	NE 130th & Lake City Way		4	5	4	4	4	5	4	4	4	4	5	4	4	3	2	2	1	1	1					
72	S	NE 130th & Lake City Way		3	2	2	2	1	2	3	2	2	1	3	2	1	2	2	1	1	1	1					
65	SE	30th ave NE & NE 133rd St		2	3	4	3	2	2	2	2	2	3	2	2	2	2	2	2	2	1	1					
		•																									12 hr avg.
		Total pick-ups per hour		9	10	10	9	7	9	9	8	8	8	10	8	7	7	6	5	4	3	3					8.6
		-																	18-l	nou	r av	era	ge of	f tot	al p	icku	7.3

Conclusion: 8.6 pick-ups exceeds the necessary minimum of 4 pick-ups

Saturday Time of Day			4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
Route	Direction	Stop							Fre	que	ency																
41	S	NE 130th & Lake City Way		1	2	2	4	4	5	4	4	4	4	3	4	5	3	2	2	2	1	1					
72	S	NE 130th & Lake City Way			2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1					
65	SE	30th ave NE & NE 133rd St			1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1					
																											12 hr avg.
		Total pick-ups per hour			5	6	8	8	9	8	8	8	8	7	8	9	6	5	5	5	3	3					7.7
																			18-	nou	r av	era	ge o	f tot	tal p	oicku	6.6

Conclusion: 7.7 pick-ups exceeds the necessary minimum of 4 pick-ups

Sunday Time of Day	1		4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	. 12	1	. 2	3
Route	Direction	Stop							Free	quei	ncy															
41	S	NE 130th & Lake City Way			1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1				
72	S	NE 130th & Lake City Way			1	1	1	1	1	2	1	1	1	1	1		1	1	2	1	1	1				
65	SE	30th ave NE & NE 133rd St			1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1				
	-																									
		Total pick-ups per hour			3	4	5	5	5	6	5	5	5	5	5	4	5	5	5	4	3	3		Γ		

Conclusion: the Sunday pick-ups exceeds minimum of 2 pick-ups; the 7-day 18-hour average also exceeds 2 pick-ups





GREEN FACTOR SCORE SHEET

Green Factor Score Sheet

GIG	en	га	CIUI	Scu	16	211	et
Project	title:						

Parcel	size	(enter	this	value	fil

Α	Landscaped areas	(select one of the following for each area)

- Landscaped areas with a soil depth of less than 24"
- 2 Landscaped areas with a soil depth of 24" or greater
- 3 Bioretention facilities

Landscape Elements**

- B Plantings (credit for plants in landscaped areas from Section A)
- Mulch, ground covers, or other plants less than 2' tall at maturity 1
- 2 Shrubs or perennials 2'+ at maturity - calculated at 12 sq ft per plant (typically planted no closer than 18" on center)
- 3 Tree canopy for "small trees" or equivalent (canopy spread 8' to 15') - calculated at 75 sq ft per tree
- Tree canopy for "small/medium trees" or equivalent 4 (canopy spread 16' to 20') - calculated at 150 sq ft per tree
- 5 Tree canopy for "medium/large trees" or equivalent (canopy spread of 21' to 25') - calculated at 250 sq ft per tree
- 6 Tree canopy for "large trees" or equivalent (canopy spread of 26' to 30') - calculated at 350 sq ft per tree
- 7 Tree canopy for preservation of large existing trees with trunks 6"+ in diameter - calculated at 20 sq ft per inch diameter
- C Green roofs
- Over at least 2" and less than 4" of growth medium
- 2 Over at least 4" of growth medium
- D Vegetated walls
- E Approved water features
- F Permeable paving
- Permeable paving over at least 6" and less than 24" of soil or gravel 1
- 2 Permeable paving over at least 24" of soil or gravel
- G Structural soil systems

H Bonuses

- 1 Drought-tolerant or native plant species
- 2 Landscaped areas where at least 50% of annual irrigation needs are m through the use of harvested rainwater
- 3 Landscaping visible to passersby from adjacent public right of way or public open spaces
- Landscaping in food cultivation 4

* Do not count public rights-of-way in parcel size calculation.

** You may count landscape improvements in rights-of-way contiguous with the parcel. All landscaping on private and public property must comply with the Landscape Standards Director's Rule (DR 6-2009)



SEATT	LE×gree	n facto	or
enter sq ft of parcel	0	5	
rst) * 3,332	Г	SCORE	0.403
Totals from G	F worksheet	Factor	Total
[enter sq ft 0	0.1	-
C	enter sq ft 108.6	0.6	65.2
0	enter sq ft 0	1.0	-
C	enter sq ft 0	0.1	-
enter number of plan 52	ts 624	0.3	187
enter number of plan	<i>ts</i> 150	0.3	45
enter number of plan	<i>ts</i> 0	0.3	-
enter number of plan	<i>ts</i> 0	0.4	-
enter number of plan	ts 0	0.4	-
enter inches DBH	0	0.8	-
[enter sq ft 0	0.4	-
C	enter sq ft 560	0.7	392.0
0	enter sq ft 512	0.7	358.4
0	enter sq ft 0	0.7	-
Γ	enter sq ft 1030	0.2	206.0
C	enter sq ft 0	0.5	-
C	enter sq ft 0	0.2	-
sub-total of sq ft =	2,985		
0	enter sq ft 668	0.1	66.8
net	enter sq ft 77.6	0.2	15.5
C	enter sq ft 78	0.1	8
0	enter sq ft 0	0.1	-
	Green Factor	numerator =	1,344

GSI TO MEF REQUIREMENT CALCULATOR

	City of S	eattle GSI to MEF Req	uirement Calc	ulator (2013-03-01)	
Building Permit No. →				Project Type	Parcel
Project Address			7	Project Area>	3,359
,				New plus Replaced Impervious Area	3,020
			4	Area Requiring Mitigation	3,020
Runoff Reduction Method	ls	Facility Size		Credit	Area Mitigated
Retained Trees Existing Evergreen	# Trees 0	Total Canopy Area of Trees	0 sf	x20% Canopy (or min 100 sf/tree) =0	
Existing Deciduous	# Trees 0	Total Canopy Area of Trees	0 sf	x 10% Canopy (or min 100 sintee) = 0	
New Trees		# 7		x 50 sf/tree =	
New Evergreen New Deciduous		# Trees # Trees	2	x 20 sf/tree = 40	
				Total Area Mitigated by Trees =	= 40
Dispersion ¹				Note: Maximum tree credit is 25% of	
Downspout or Sheet Flow Di	spersion	Dispersed Impervious Area	sf	x 100.0% =	:
Infiltration and Reuse Fac	cilities	Facility Size		Sizing Factor	Area Mitigated
nfiltrating Facilities Bioretention Cell (without Un	derdrain)				
1 Contributing Area	sf	Bioretention Bottom Area	sf	Enter Contributing Area	
Ponding Depth Design Infiltration Rate	in in/hr				
Design miniation rate					
2 Contributing Area	sf	Bioretention Bottom Area	sf	Enter Contributing Area	
Ponding Depth	in				
Design Infiltration Rate	in/hr				
3 Contributing Area	sf	Bioretention Bottom Area	sf	Enter Contributing Area	
Ponding Depth	in	Distriction Dottom Area			-
Design Infiltration Rate	in/hr				
Detention Cistern to Rioreter	ntion Cell (BC) (without Underdrain) ²				
Contributing Area	sf	Bioretention Bottom Area	sf	Only for SFR	
Number Cisterns					
BC Ponding Depth BC Design Infilt Rate	in in/hr				
	3				
Permeable Pavement Facilit Contributing Area	v (mav receive run-on)° 600 sf	Permeable Pavement Area	1196.61 sf	0.3333	60
Ponding Depth 4	≥6 in			Plus Permeable Pavement Facility Area =	1,19
Design Infiltration Rate	0.25 in/hr			Note: A contributing area of up to 3590 sf	
				may be mitigated by a facility of this size	
Reuse Facilities ¹					
Rainwater Harvesting		Applicant must provide document	ation of area mitigate	d by rainwater narvesting	
mpervious Surface Redu		Facility Size		Credit	Area Mitigated
Iternative Pavement Surfaces Permeable Pavement Surfaces		Permeable Pavement Area	1,197 sf	x 100.0% =	- 1,19
Permeable Pavement Surface		Permeable Pavement Area	sf	x 55.0% =	- 1,10
Iternative Roof Surfaces 1					
Green Roof (Single/Multi-Co		Green Roof Area	560 sf	x 55.0% =	30
Green Roof (Multi-Course / 8	Growth Medium)	Green Roof Area	st	X 84.0% =	·
artial Infiltration 1 Bioretention Cell with Detent	ion (without Underdrain)				
Contributing Area	sf				
Ponding Depth	in	Bioretention Bottom Area	sf	Enter Contributing Area	>
Design Infiltration Rate	in/hr				
on-Infiltrating Facilities		Facility Size		Credit	Area Mitigateo
on Infiltrating Facilities Bioretention Planter (with un	derdrain)				
Contributing Area	sf			Enter Contributing Area	
Ponding Depth	in	Bioretention Bottom Area	sf		
Detention Cistern with Harve	esting Capacity 5,6				
Contributing Area	sting capacity	Min Cistern Area	sf	Only Applicable for SFR	
		Min Live Cistern Volume	gal		
				Total Area Mitigated ———	
				Area Requiring Mitigation ———	
				% Impervious Area Mitigated ———	
				GSI to MEF Target Achieved?	
					120
lotes:					
GSI - Green Stormwater Infra min - minimum	astructure sf - square feet ft - feet		eqn - equation gal - gallons	BC - bioretention cell infilt - infiltration	
1. Single family residential p	rojects and trail/sidewalk projects are	not required to evaluate this BMF	5.		
	n must have 6.68 sf minimum bottom . Flow from cistern orifice must be ro		nimum of 3 feet of liv	e storage above the orifice. If using two cisterns they must b	e connected
3. The area contributing rund	off to a facility shall be no larger than	3 times the permeable pavement	facility area correspo	nding to a minimum sizing factor of 33.3%.	
	ing depth in aggregate storage reser- ound. Cistern area must be rounded u		product. Cistern noor	d not have more than 3 feet of live storage volume above orif	ice
6. Water collected using the	detention cistern may be used for no			es of harvested water consider the "Rainwater Harvesting" BN	
	vide conveyance flow calculations.		0	- Valuera 0	
	nsure system overflow conveyance is	s provided per Section 4.2.5 of the	somwater Manual	VOIUTTE 3.	



