



EVER READY

City of Seattle Neighborhood Fire Station 9

Design Commission Review - Schematic Design January 21, 2010



MITHŪN

Fire Station 9

3829 Linden Avenue N

Located along Linden Ave N. between N. 38th Street and 39th Street, in Fremont

Station type - Neighborhood I (the smallest of all stations)

Replacement station - The existing station is in poor condition due to its age. Replacement would be more cost-effective than remodel.

Station 9 will be rebuilt on the site of existing station and expanded from 5,700 sf to approx. 8,500 sf.

Station 9 will continue to provide compressed air fill service for the North end. It will also continue to house one engine company.

An interim facility will be provided in different location during construction.

Sustainability goal - LEED silver or higher.

Artist, Peter Reiguam is selected to join the team at the beginning of schematic design.

Currently, at 90% Schematic Design.



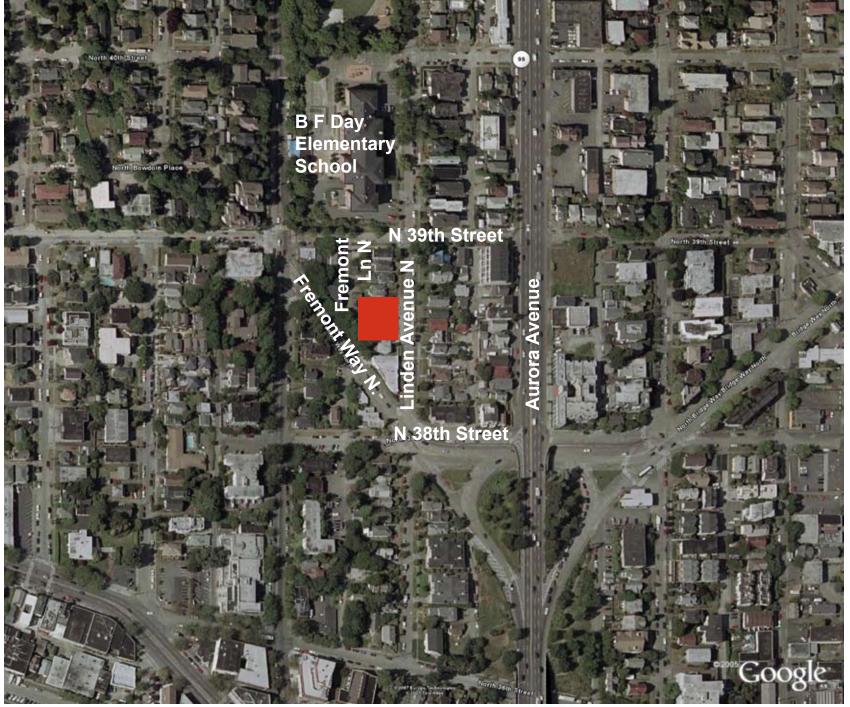
CITY OF SEATTLE FIRE STATION 9 Design Commission Review Schematic Design























looking west to Fire Station 9 site & adjacent buildings



art at existing station site

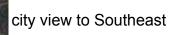








looking east to buildings across street from station site









steep slope with existing trees at back of site



















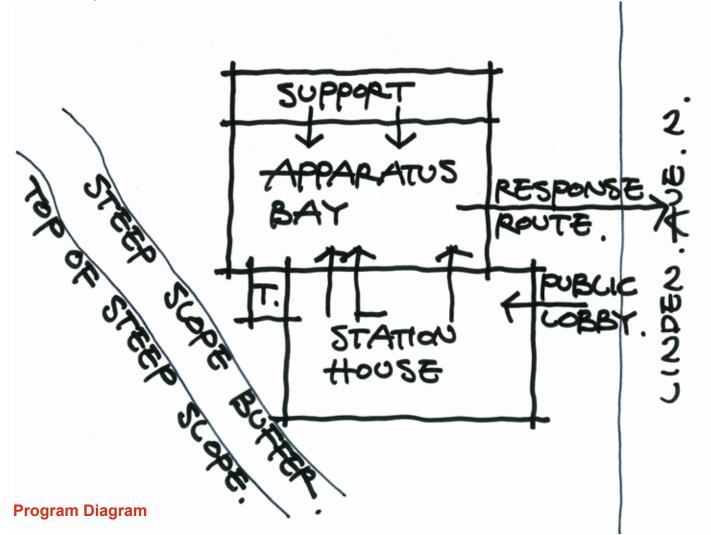


Fire Station 9 Mascot -**EVER READY cat with 9 long lives**

Design Concept

BE EVER READY

provide an EVER READY station to firefighters, functional, efficient & comfortable.



Design Concept













Design Commission Comments

Concept Design Preseatation October 1, 2009

Commended the project for:

fit the program onto the very constricted site

Encouraged team to:

work freely, going beyond just decorating the massing model integrate softscape & hardscape integrate art through out the site encourage artist to be free, take the artwork to the next level make a gesture toward the existing, historic building in some way

CITY OF SEATTLE FIRE STATION 9

Design Commission Comments











Function / Operation

Schematic Design Process

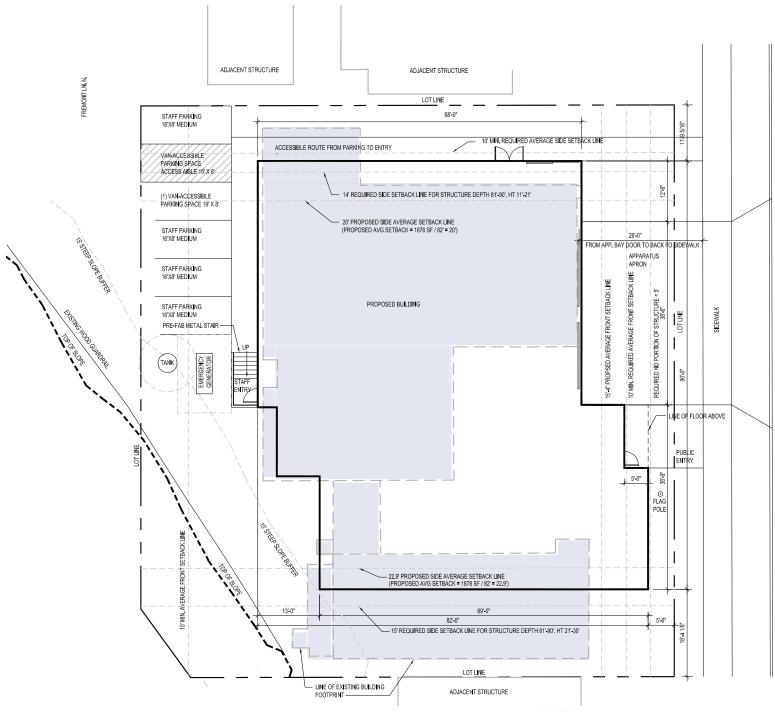
4 working meetings with SFD & FFD in SD

Community

1st public open house on 1/9/2010 positive support working with Peter to integrate art and architecture public art to be presented to PACC in Feburary historical exhibit coordination

Budget

project is on budget at SD



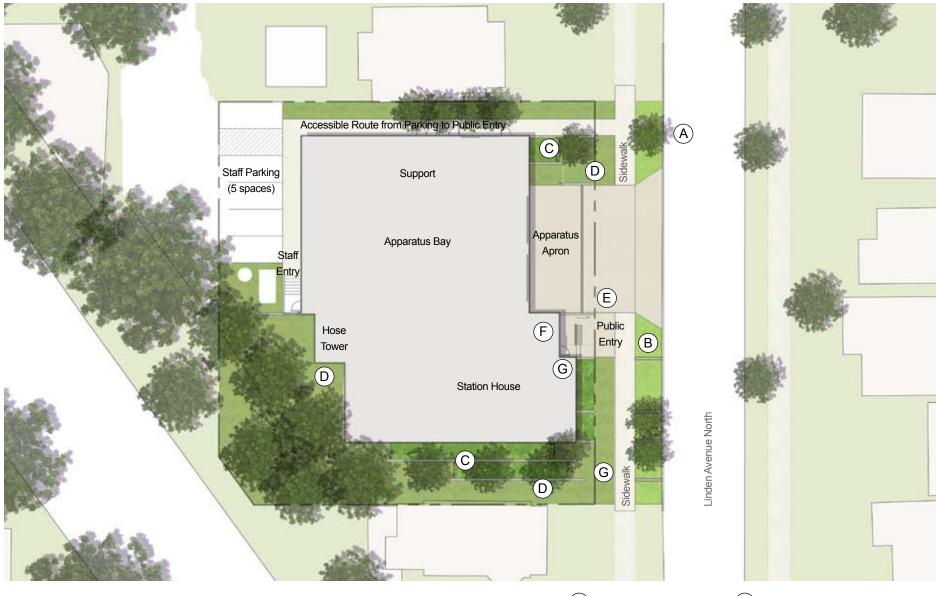
CITY OF SEATTLE FIRE STATION 9

Site Plan









- New Street Trees (3)
- FS9 Mascot in conc. paving
- Rain Garden at Planter Strip
- (F) Relocate existing FS9 Mascot neon art
- Stormwater Planters
- FS9 historical exhibit
- Native Plantings







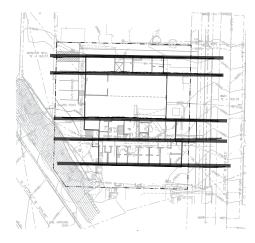






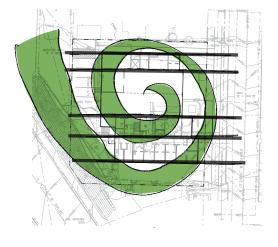


- Connect to native plantings locally and at neighborhood scales
- Vertically integrate plantings connect to existing tree canopies and ground-level shrub layer



Infrastructure:

- Slow flow of water across site
- Expose natural processes
- Allow for evapotranspiration opportunities .
- Allow for water collection from roof and paved surfaces
- Use site grades to our advantage



Conceptual Overlay:

Functional site that utilizes structural interventions and plants to create an engaging place.













Design Commission Review Schematic Design

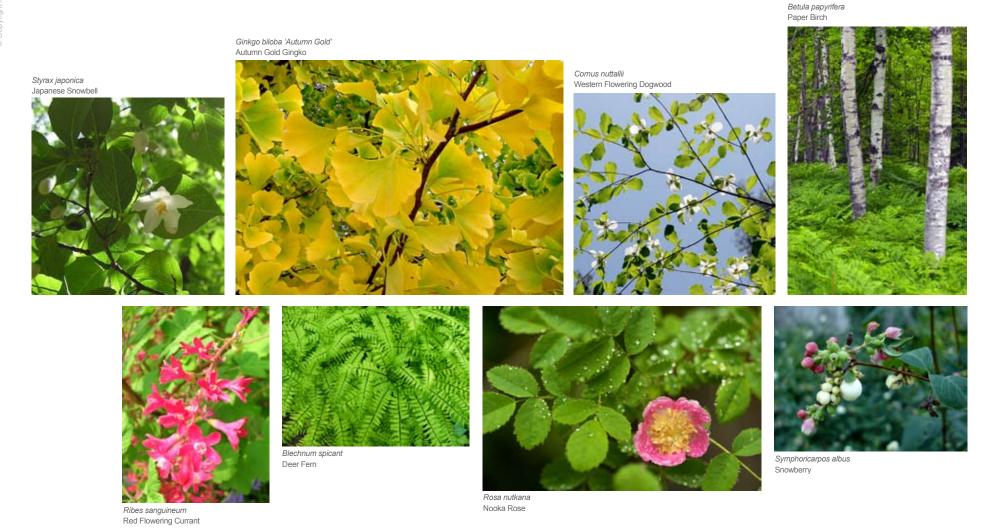






suggested plant species

accent trees native plants













stormwater garden

sidewalk planting

Acer circinatum Vine Maple



















Larix laricina Tamarack

Polystichum munitum Sword Fern



Arcostaphylos uva-ursi Kinnikinnick



Mahonia repens Creeping Mahonia



Fragaria chiloensis Coastal Strawberry



























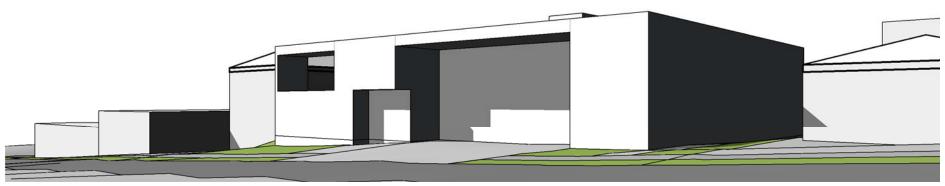












1 box, singular civic gesture















1 box + high space



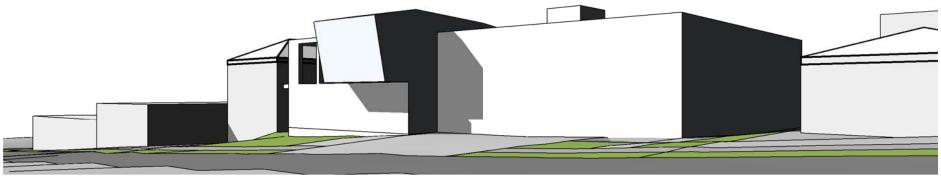












1 box + high space, object, sculpture, Fremont funkyness

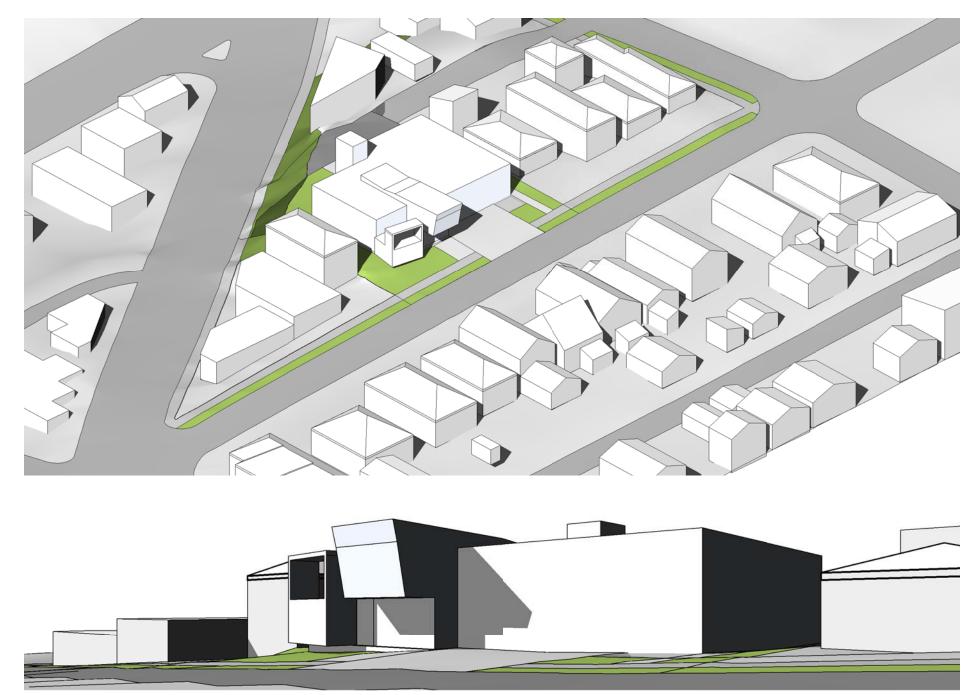












1 box + high space, object, sculpture, Fremont funkyness + highlight deck

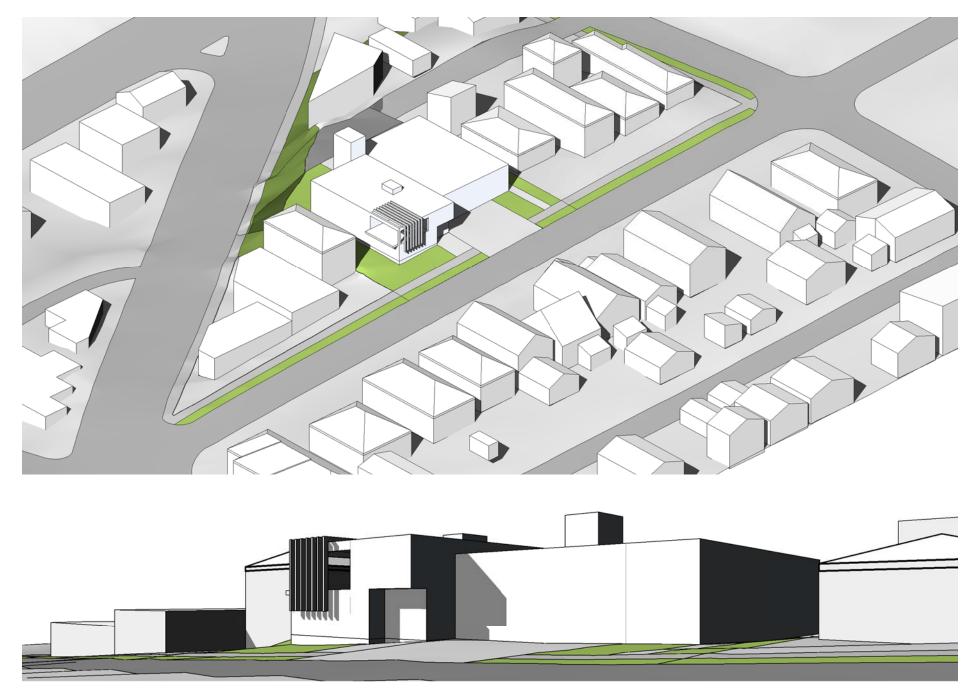












2 boxes - operation box + living quarter



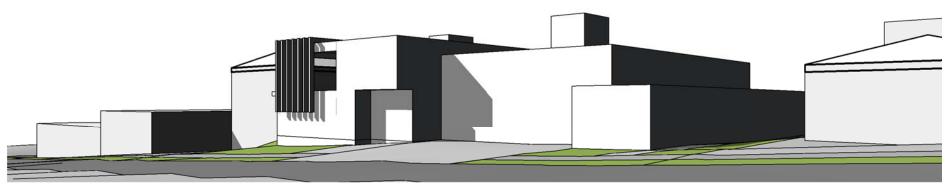












3 boxs - station house + apparatus bay + support bar



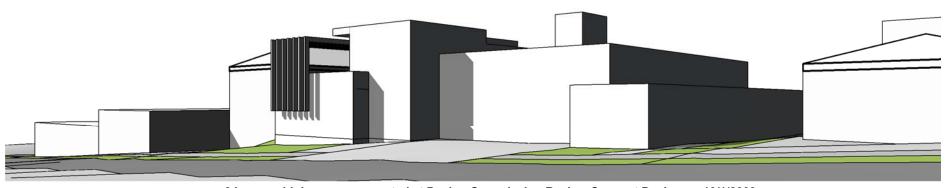












3 boxes + high space, presented at Design Commission Review Concept Design on 10/1/2009









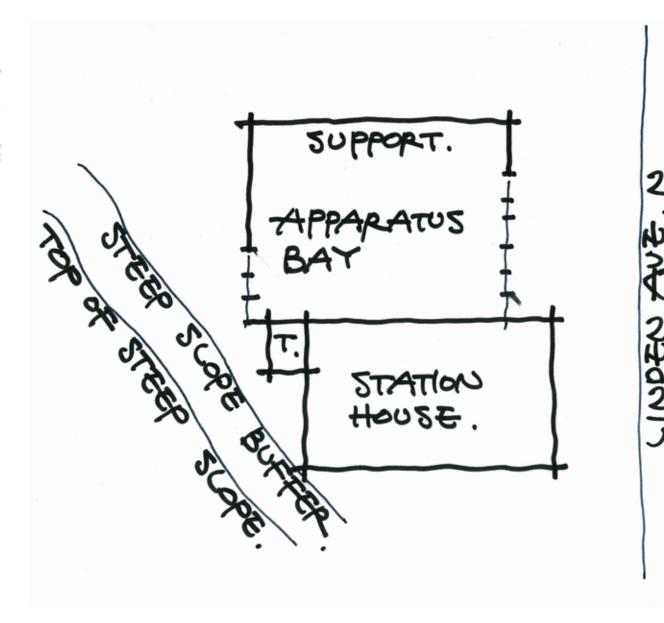












Operation Box

- transparency at apparatus bays East & West Elevations
- showcase EVERY READY (fire trucks & actions)
- civic presence

Station House Box

- support BE EVERY READY

Contrast between solid & transparent

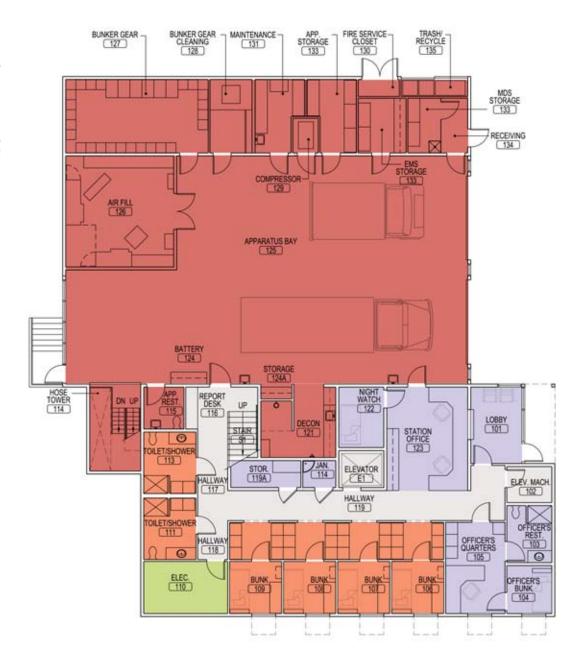
use of brick responds to residential neighborhood at building material & its scale & texture level











Response to program

Compact building footprint is away from steep slope buffer.

All operation support spaces are accessed directly from Apparatus Bay.

All sleep rooms are located on 1st floor for quick response time.

Rest of crew spaces & outdoor beanery area are located on 2nd floor to take advantage of city view & stay away from traffic noise from Fremont Way N.

Extra wide "L" shaped open stair is designed for quick response time with visual connection & min. turns.

Public Lobby & Physical Training are more visible while the rest spaces are more private.



























Response to program

Compact building footprint is away from steep slope buffer.

All operation support spaces are accessed directly from Apparatus Bay.

All sleep rooms are located on 1st floor for quick response time.

Rest of crew spaces & outdoor beanery area are located on 2nd floor to take advantage of city view & stay away from traffic noise from Fremont Way N.

Extra wide "L" shaped open stair is designed for quick response time with visual connection & min. turns.

Public Lobby & Physical Training are more visible while the rest spaces are more private.









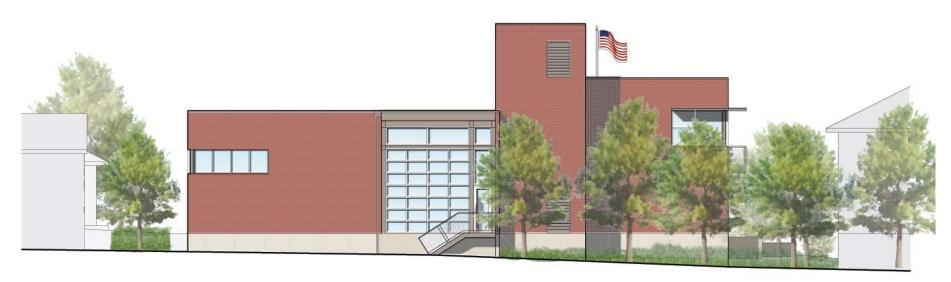








West Elevation



East Elevation

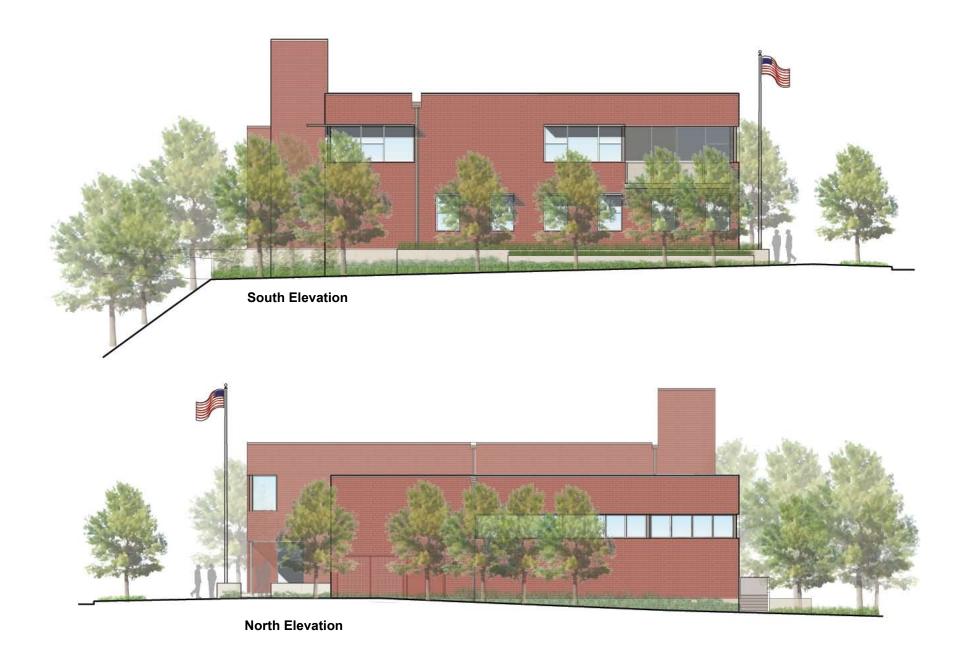




























B.F.Day School

Street Elevation Along Linden Ave. N. Looking West



Street Elevation Along Linden Ave. N. Looking West















B F Day Elementary School

Response to Fremont & neighborhood

explore brick options

color & texture

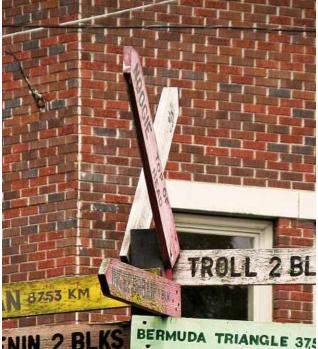
option 1 - mixed color, mission/rugged texture e.g. brick buildings in Fremont commeicial area

option 2 - one color, smooth texture e.g. B F Day School

size

Standard 2 1/4" x 7 5/8", residential scale Econ 3 1/2" x 11 1/2", commercial scale







Brick color & pattern on existing buildings in Fremont commercial area







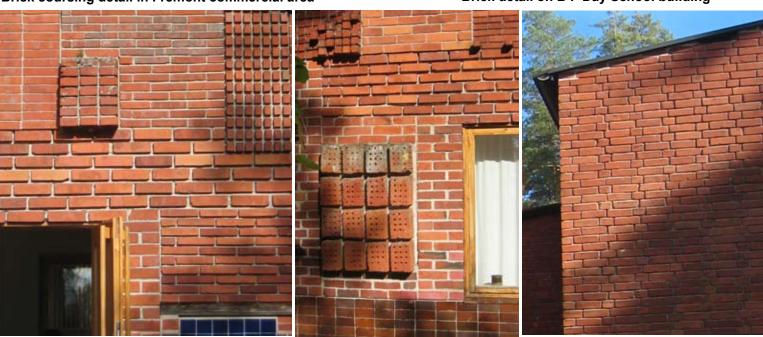






Brick coursing detail in Fremont commercial area





Brick details on Alvar Aalto's buildings









Response to Fremont &

explore brick options

neighborhood -

pattern

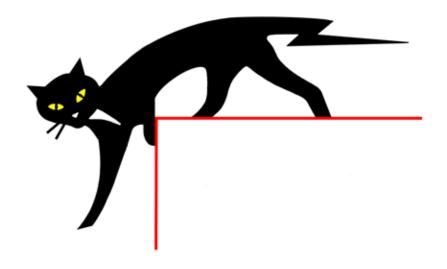
detail

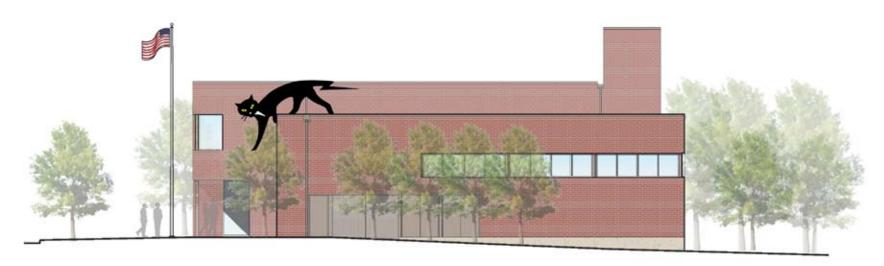
in & out

Stretcher bond Flemish bond

solider coursing at window head & sill







NORTH ELEVATION Fire Station 9 - Artist's Concept Study 15 Jan. 2010







	Seattle Municipal Code Requirements	Departure request	Decision type
Departure No.1 Parking quantity	Parking quantity per SMC 23.45.098 Requirement for fire stations is not shown on Chart A, B or C of 23.54.015.	To meet the program needs, 5 spaces are proposed for staff parking, 1 space per staff.	Director determination based on the requirements for the most comparable use per SMC 23.54.015. H.
Departure No.2 Right of Way	Fremont Lane N. Right of Way improvement per SMC 23.53.015	No Right of Way improvement along Fremont Lane N. is proposed because environmentally critical area and it is adequate for current & potential pedestrian and vehicular traffic.	Director rule in consultation with Director of Transportation during MUP to waive or modify requirements.
Departure No.3 Parking location	Parking location per SMC 23.45.098 B. "Parking areas and facilities may not be located in the required front setback." Proposed staff parking at Fremont Lane N. is not allowed in the required front setback unless it is determined to be an undeveloped street per 23.40.030 and a front setback is not required.	To meet the program needs, the proposed staff parking is located in the required front setback along Fremont Lane N.	Type I or II Directors rule during MUP. Or if 23.40.030 does not apply to the site, Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.45.106.
Departure No.4 Structure width & depth	Structure width & depth per SMC 23.45.094 A.1. Maximum width with modulation or landscape option in Lowrise 1 zone is 75'. B. "The maximum depth of institutional structures shall be 65% of lot depth." 72.8'	To meet the program needs & steep slope buffer requirement, the proposed width is 89'-6"; depth is 80'. To reduce the appearance of bulk, the front facade is modulated, landscaping is provided & the proposed average front setback is 15', 5' more than 10' minimum average front setback requirement.	Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.76.004A.
Departure No.5 Landscaping of required stebacks	Landscaping of required stebacks per SMC 23.45.096 E.1. "Institutions shall provide landscaping for setbacks which abut a street."	Landscaping is not provided for front setback at Fremont Lane N. due to conflict with meeting steep slope buffer requirement & the program needs to provide staff parking, staff entry access, trash & recycle area.	Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.45.106.
Departure No.6 Noise	Noise per SMC 23.45.100 A.2. Institutions which are the origin or destination of emergency vehicles which emit noise specifically exempted by Chapter 25.08 shall be located only on an arterial street as designated in Chapter 11.18 of the Seattle Municipal Code (Traffic Code). Access to emergency entrances for such institutions shall also be located on the arterial."	located on an arterial street; the steep slope prohibits access to the site. This development standard can	Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.45.106.
Departure No.7 Curb cuts	Curb cuts per SMC 23.54.030 F.2.b. 25' curb cut is allowed.	To meet the program needs & steep slope buffer requirement, the proposed curb cut is 48' for 5 parking spaces along Fremont Lane N.	Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.45.106, C.
Departure No.8 Structure Height	Structure Height per SMC 23.45.009 t A. maximum hright for L1 zone 25'.	To meet the program needs, additional height is proposed for Station House portion of the structure.	Type V Council decision during MUP to waive or modify development standard for City facilities per SMC 23.76.004A.
CITY OF SEATTLE Design Commission Review S	,	1.21.2010 33	FLACK+KURTZ ROEN LD MITHUN



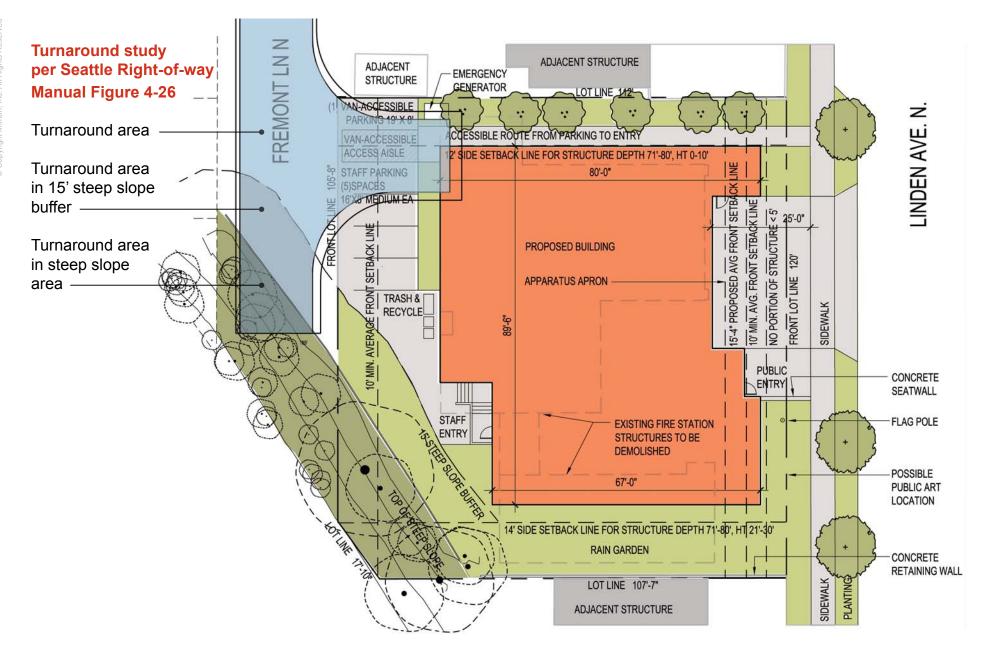














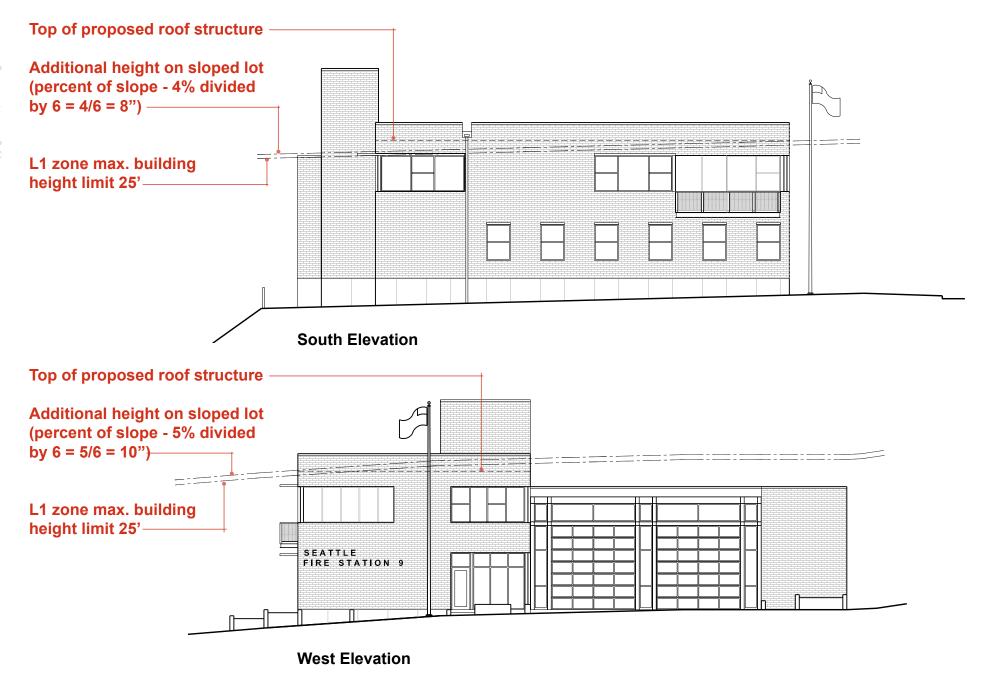


















21	3		2	Sustainable Sites		
Υ				SS Prereq 1	Construction Activity Pollution Prevention	
1				SS Credit 1 Site Selection		
5				SS Credit 2	Development Density & Community Connectivity	
	1			SS Credit 3	Brownfield Redevelopment	
6				SS Credit 4.1	Alternative Transportation, Public Transportation Access	
1				SS Credit 4.2	Alternative Transportation, Bicycle Storage & Changing Rooms	
3				SS Credit 4.3	Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles	
2				SS Credit 4.4	Alternative Transportation, Parking Capacity	
	1			SS Credit 5.1	Site Development, Protect or Restore Habitat	
			1	SS Credit 5.2	Site Development, Maximize Open Space	
			1	SS Credit 6.1	Stormwater Design, Quantity Control	
1				SS Credit 6.2	Stormwater Design, Quality Control	
1				SS Credit 7.1	Heat Island Effect, Non-Roof	
1				SS Credit 7.2	Heat Island Effect, Roof	
	1			SS Credit 8	Light Pollution Reduction	
2	1	7		Water Efficiency		
Υ	Y WE Prereq 1		WE Prereq 1	Water Use Reduction, 20% Reduction		
2				WE Credit 1.1	Water Efficient Landscaping, Reduce by 50%	
		2		WE Credit 1.2	Water Efficient Landscaping, No Potable Use or No Irrigation	
		2		WE Credit 2	Innovative Wastewater Technologies	
	1	3		WE Credit 3	Water Use Reduction	
9	6	1	19	Energy & A	Atmosphere	
Υ				EA Prereq 1	Fundamental Commissioning of the Building Energy Systems	
Υ	Y EA Prere		EA Prereq 2	Minimum Energy Performance, 10% New Bldgs or 5% Ex. Bldg Renovatic		
Υ	Y EA		EA Prereq 3	Fundamental Refrigerant Management		
5	1	1	12	EA Credit 1	Optimize Energy Performance	
			7	EA Credit 2	On-Site Renewable Energy	
2				EA Credit 3	Enhanced Commissioning	
2				EA Credit 4	Enhanced Refrigerant Management	
	3			EA Credit 5	Measurement & Verification	
	2			EA Credit 6	Green Power	
5	2		7	Materials 8	& Resources	
Υ				MR Prereq 1	Storage & Collection of Recyclables	
			1	MR Credit 1.1	Building Reuse, Maintain 55% of Existing Walls, Floors & Roof	
			1	MR Credit 1.2	Building Reuse, Maintain 75% of Existing Walls, Floors & Roof	
			1	MR Credit 1.3	Building Reuse, Maintain 95% of Existing Walls, Floors & Roof	
			1	MR Credit 1.4	Building Reuse, Maintain 50% of Interior Non-Structural Elements	
1				MR Credit 2.1	Construction Waste Management, Divert 50% from Disposal	
1				MR Credit 2.2	Construction Waste Management, Divert 75% from Disposal	
			1	MR Credit 3.1	Resource Reuse, 5%	

			1	MR Credit 3.2	Resource Reuse, 10%
1				MR Credit 4.1	Recycled Content, 10% (post-consumer + ½ pre-consumer)
1				MR Credit 4.2	Recycled Content, 20% (post-consumer + ½ pre-consumer)
1				MR Credit 5.1	Regional Materials, 10% Extracted, Processed & Manufactured Regionally
-	1			MR Credit 5.2	Regional Materials, 20% Extracted, Processed & Manufactured Regionally
	-		1	MR Credit 6	Rapidly Renewable Materials, 2.5%
	1		•	MR Credit 7	Certified Wood
12	2	1			vironmental Quality
Y				EQ Prereg 1	Minimum IAQ Performance
Y				EQ Prereg 2	Environmental Tobacco Smoke (ETS) Control
1				EQ Credit 1	, ,
1				EQ Credit 1	Outdoor Air Delivery Monitoring Increase Ventilation
-					
1	4			EQ Credit 3.1	Construction IAQ Management Plan, During Construction
_	1			EQ Credit 3.2	Construction IAQ Management Plan, Before Occupancy
1				EQ Credit 4.1	Low-Emitting Materials, Adhesives & Sealants
1				EQ Credit 4.2	Low-Emitting Materials, Paints & Coatings
1				EQ Credit 4.3	Low-Emitting Materials, Flooring Systems
	1			EQ Credit 4.4	Low-Emitting Materials, Composite Wood & Agrifiber Products
1				EQ Credit 5	Indoor Chemical & Pollutant Source Control
1				EQ Credit 6.1	Controllability of Systems, Lighting
		1		EQ Credit 6.2	Controllability of Systems, Thermal Comfort
1				EQ Credit 7.1	Thermal Comfort, Design
1				EQ Credit 7.2	Thermal Comfort, Verification
1				EQ Credit 8.1	Daylight & Views, Daylight 75% of Spaces
1				EQ Credit 8.2	Daylight & Views, Views for 90% of Spaces
3	2	1		Innovation	a & Design Process
1				ID Credit 1.1	Innovation in Design: Sustainable Education
1				ID Credit 1.2	Innovation in Design: Green Housekeeping
	1			ID Credit 1.3	Innovation in Design: Green Operations and Management
		1		ID Credit 1.4	Innovation in Design: Carbon Neutral Building
	1			ID Credit 1.5	Innovation in Design: Community Involvement/Connection - Exemplary Construction Waste, Exemplary Water Conservation
1				ID Credit 2	LEED® Accredited Professional
1		2	1	Regional I	Priority Credits
1				RP Credit 1.1	Regional Priority Credit: Specific Credit SS 1
		1		RP Credit 1.2	Regional Priority Credit: Specific Credit SS 6.1
			1	RP Credit 1.3	Regional Priority Credit: Specific Credit EA 1 & 2
		1		RP Credit 1.4	Regional Priority Credit: MR 7
					-
'es	Ea.	Hard	No		



Project Totals (pre-certification estimates)

53 credits LEED silver















ENGINE

discussion

EVER READY