



West Seattle
FIRE STATION 32
Replacement Project

Seattle Design Commission Meeting 3 Design Development

Presented by
Bohlin Cywinski Jackson
May 1, 2014

CLIENT

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Mark Nakagawara, Senior Project Manager
Chief Michael H. Walsh, Battalion Chief, Retired

Seattle Fire Department
Chief Charles Cordova, Deputy Fire Chief
Chief William Hepburn, Deputy Fire Chief
Lt. Jared Fields, Station Representative
Sean Plattner, Station Representative
Michael Mann, Station Representative

DESIGN TEAM

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Robert Miller, FAIA, LEED AP, Principal in Charge
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Kevin Wartelle, Principal

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Tetra Tech
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Integrated Design Lab
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Seattle WA 98105
Joel Loveland, Director
Christopher Meek, Daylighting Specialist

Solarc Engineering
223 West 12th Avenue
Eugene, OR 97401
Michael Hatten, Principal
Eric Knowles

Fire Station Consultant
TCA Architecture and Planning
6211 Roosevelt Way NE
Seattle WA 98115
Brian Harris, Principal

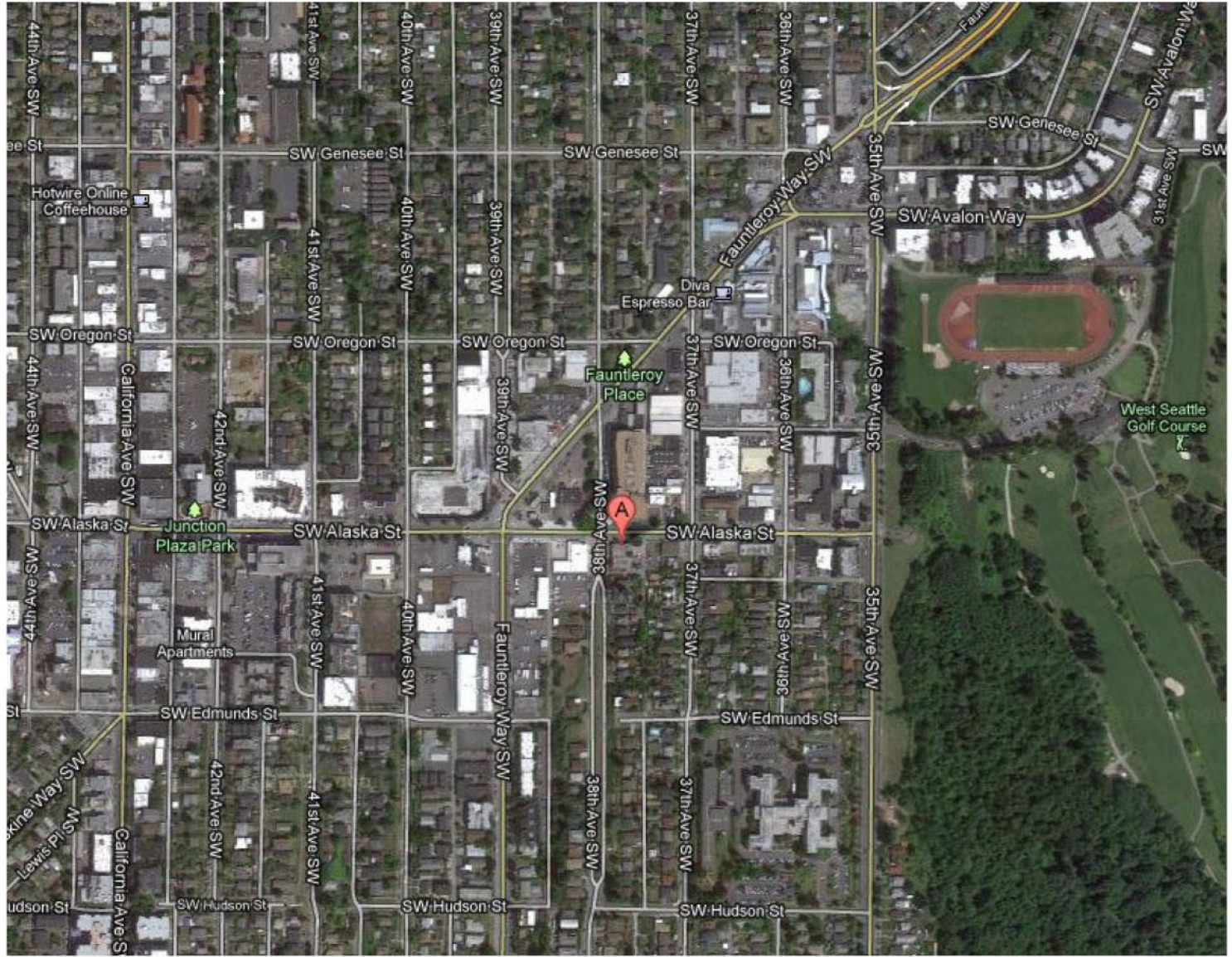
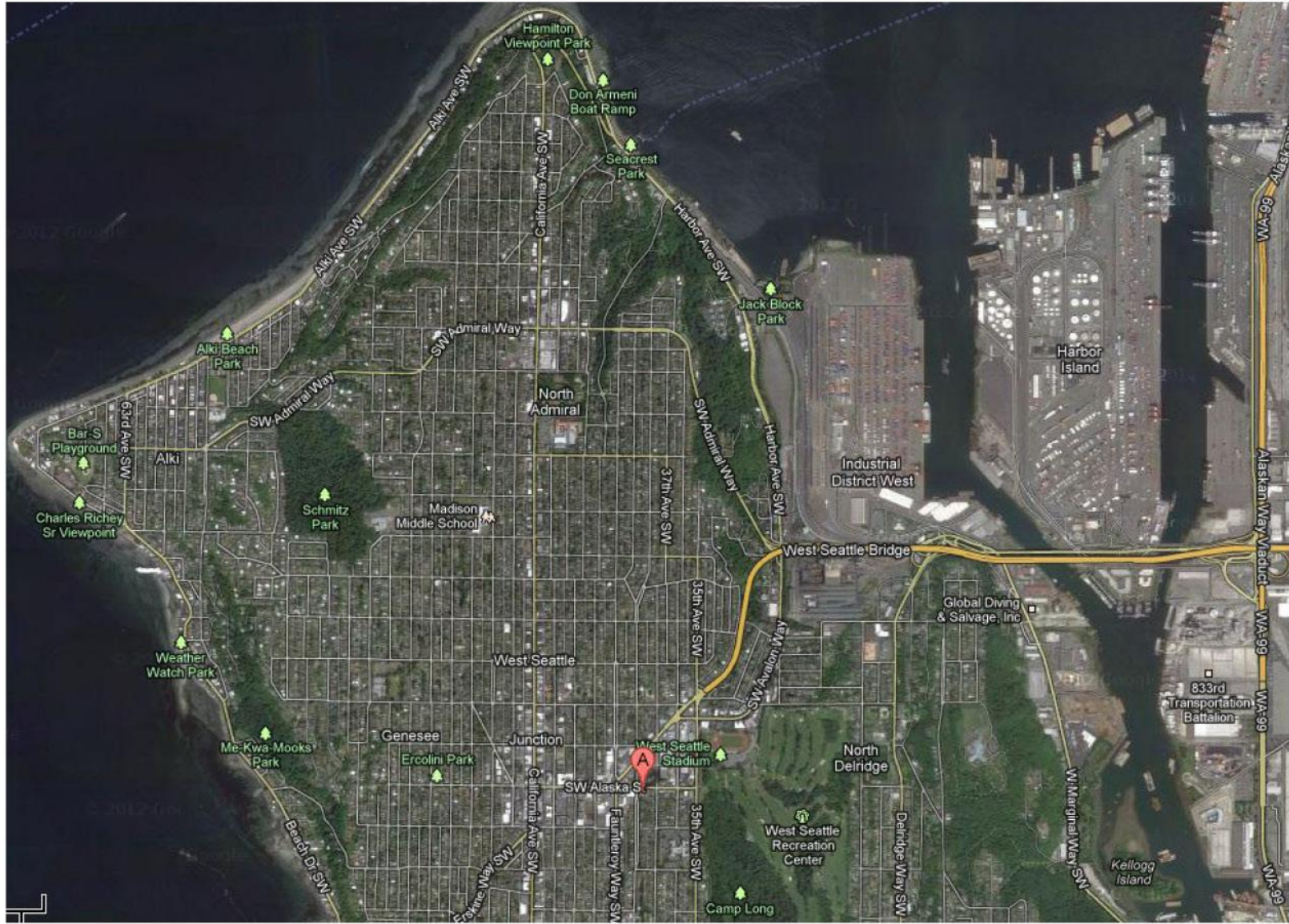
Acoustical Consultant
SSA Acoustics
222 Etruria Street, Suite 100
Seattle WA 98109
Matthew Roe, Acoustical Consultant

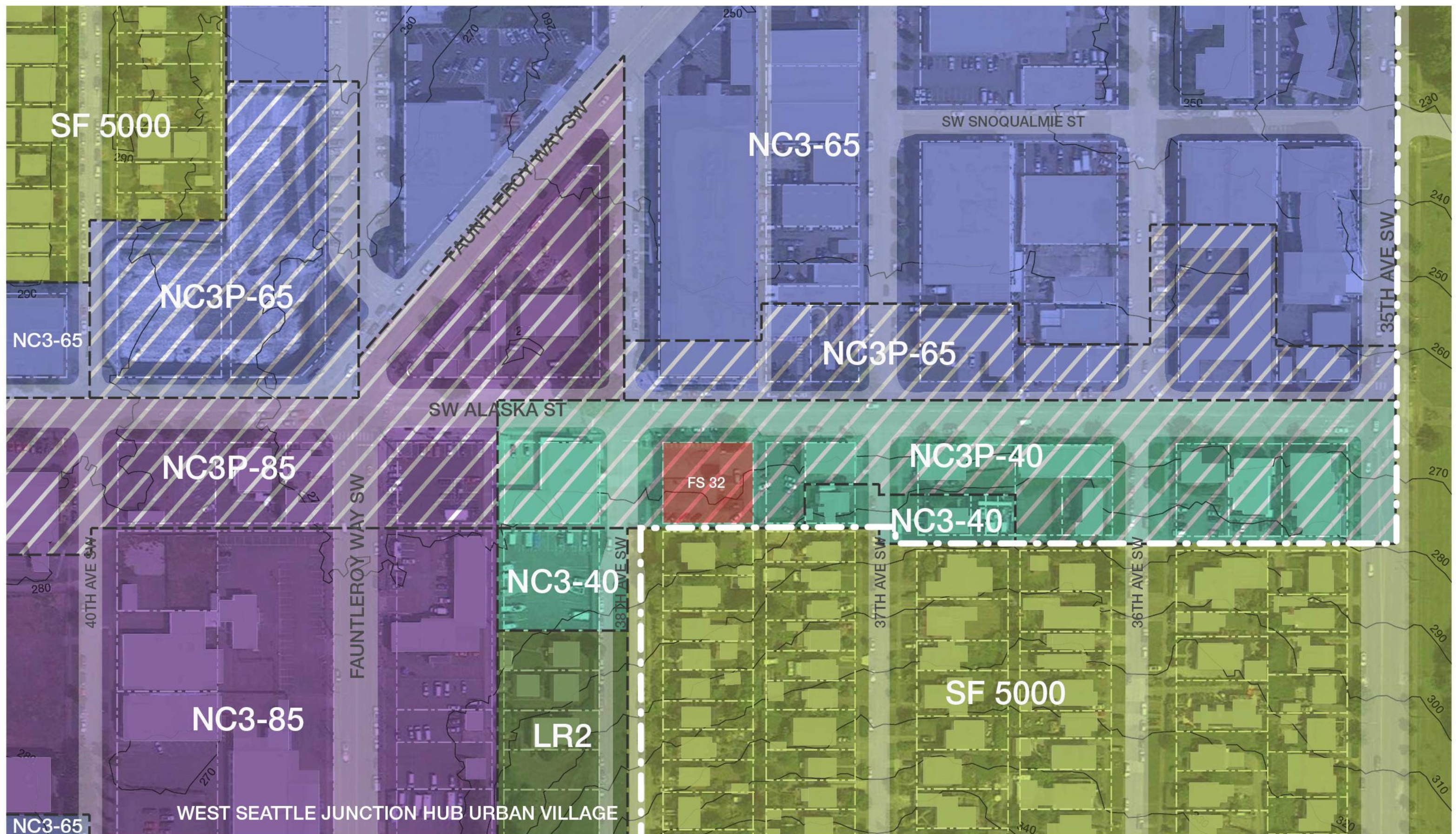
Envelope Consultant
RDH Building Sciences
2101 N 34th Street, Suite 150
Seattle WA 98103
Michael Aoki-Kramer, Principal

Cost
Robinson Company
101 Stewart Street, Suite 925
Seattle WA 98101
Sharon Kennedy, Chief Estimator
Dan Cassidy, Project Manager

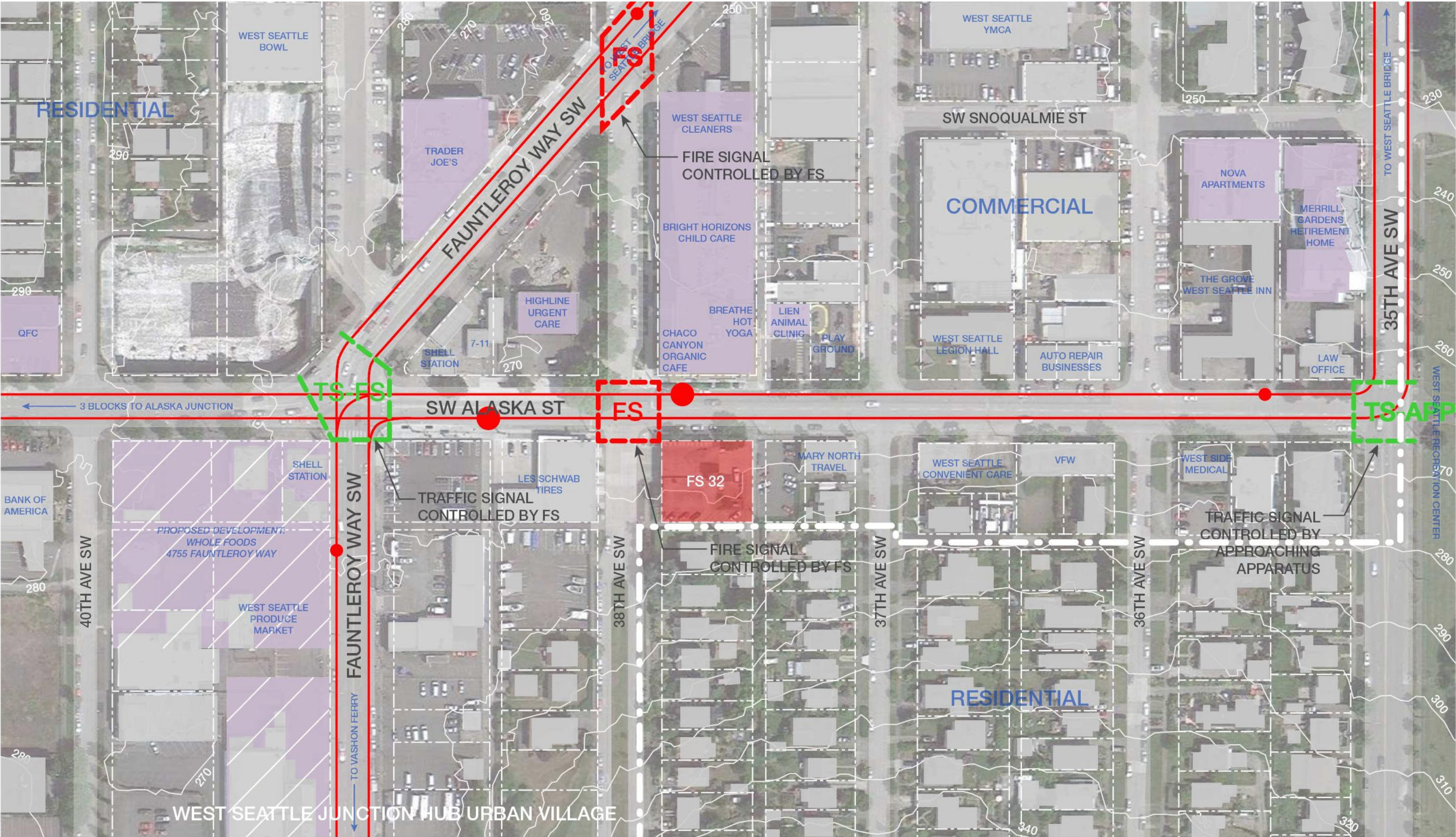
Artist
Sean Orlando
Engineered Art Works
1422 Glenfield Avenue
Oakland CA 94602

Seattle Office of Arts & Cultural Affairs
Marcia Iwasaki, Public Art Program

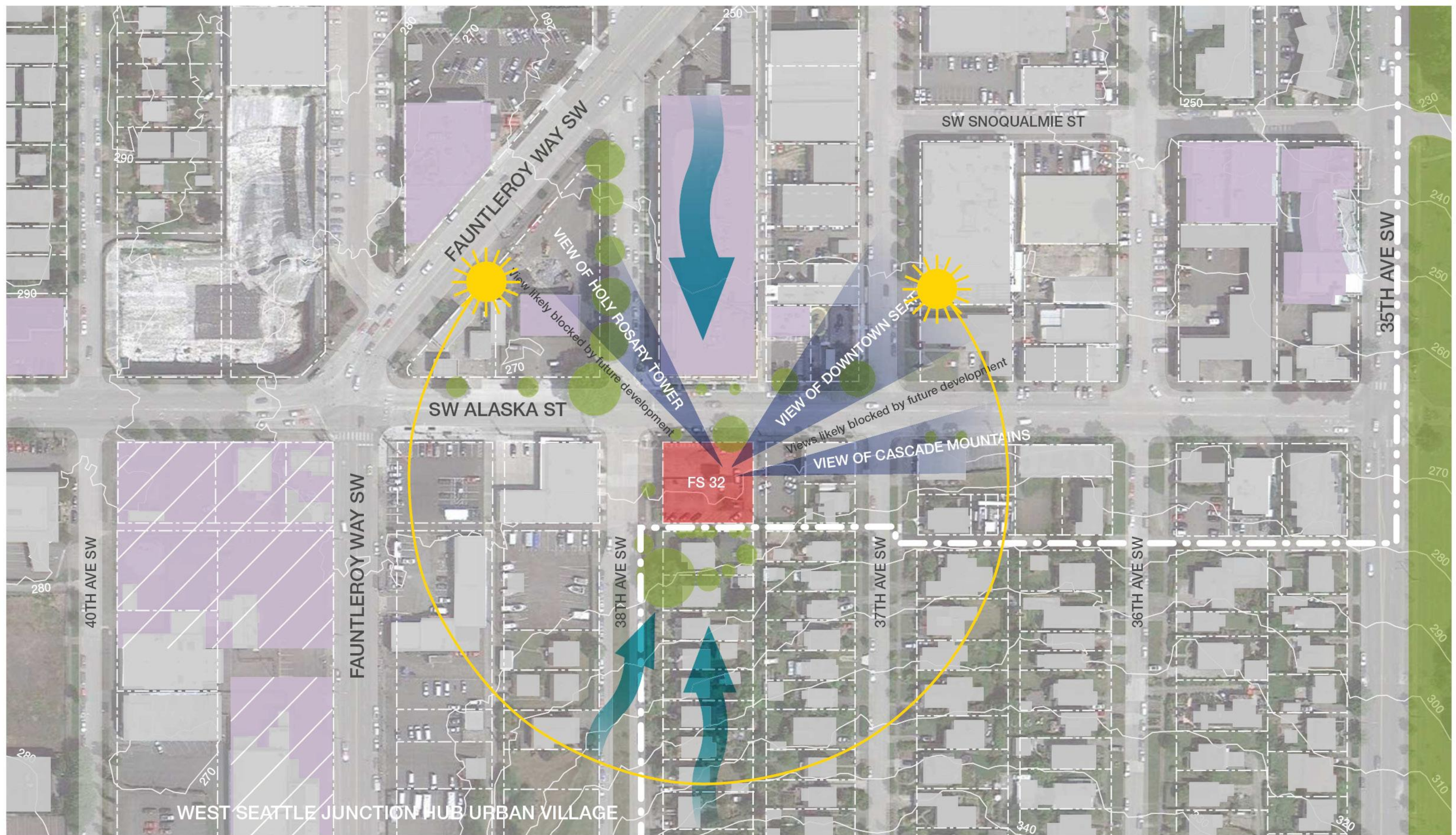




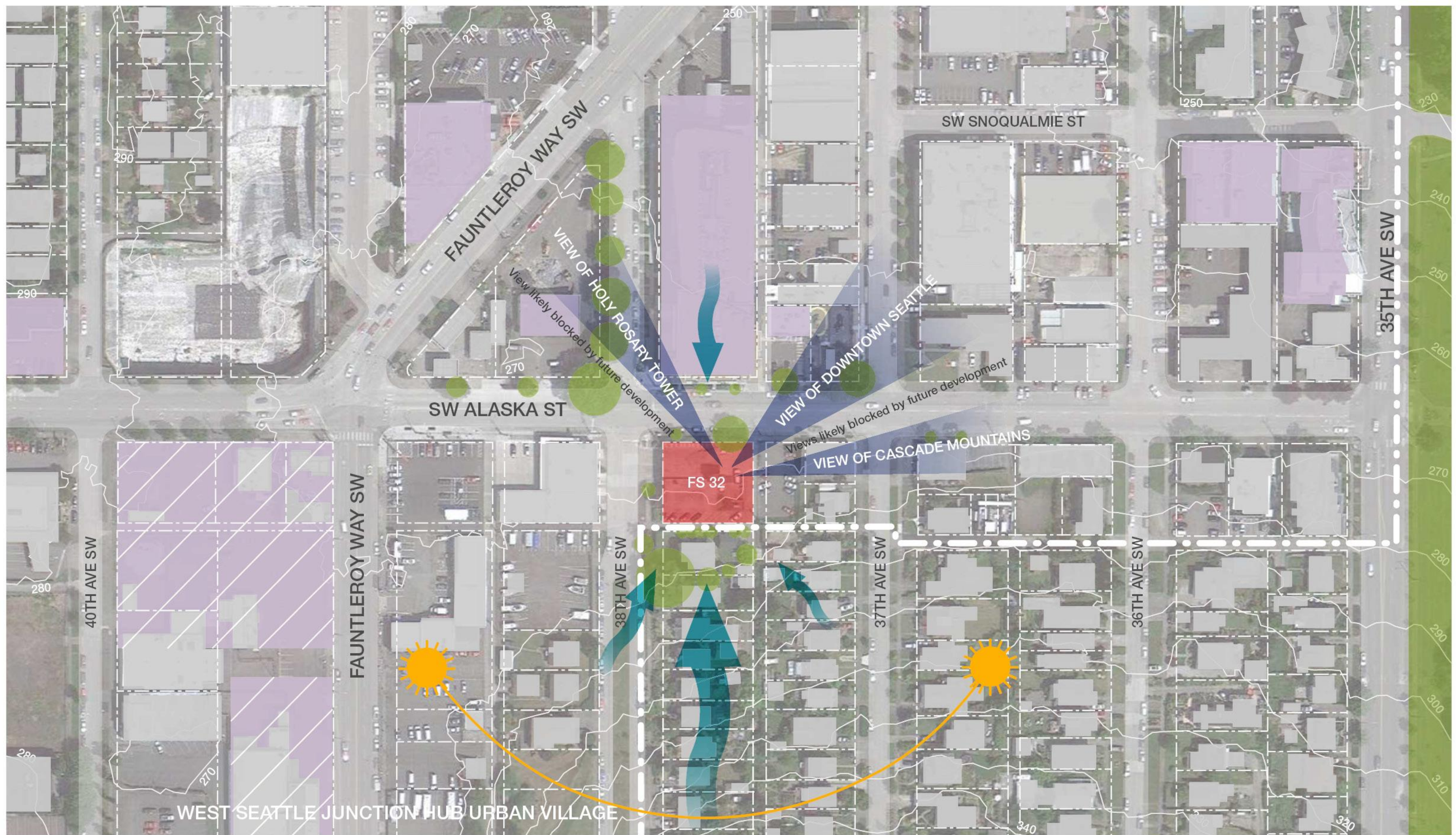
SITE EVALUATION - ZONING



SITE EVALUATION - TRAFFIC



SITE EVALUATION - SUMMER CONDITIONS



SITE EVALUATION - WINTER CONDITIONS



VIEW OF STATION, FACING EAST



VIEW OF STATION, FACING SOUTHWEST



VIEW TO SOUTH



SOUTH ALLEY



VIEW FROM DRILL TOWER LOOKING EAST



VIEW FROM DRILL TOWER LOOKING WEST



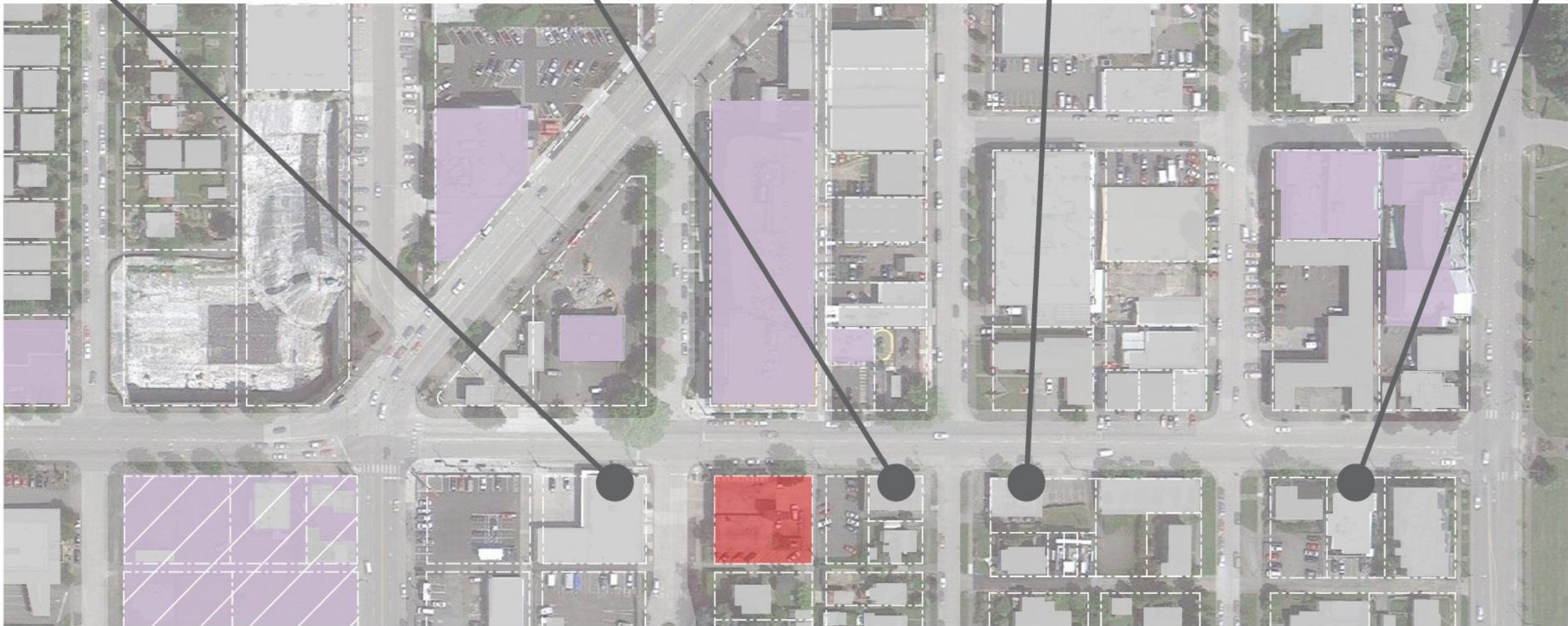
VIEW FROM DRILL TOWER LOOKING NORTHEAST



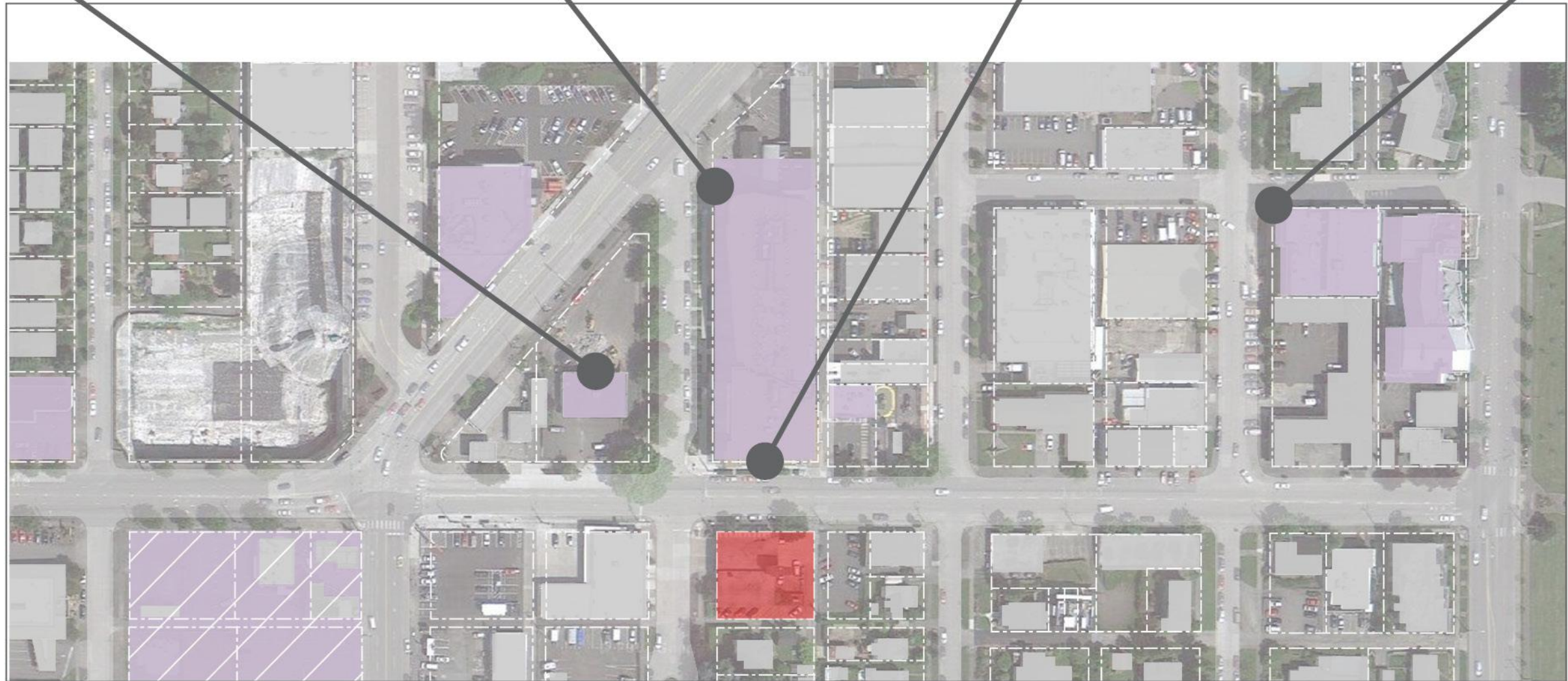
VIEW OF STATION, FACING NORTHEAST



VIEW OF STATION, FACING NORTH ON 38TH AVE SW



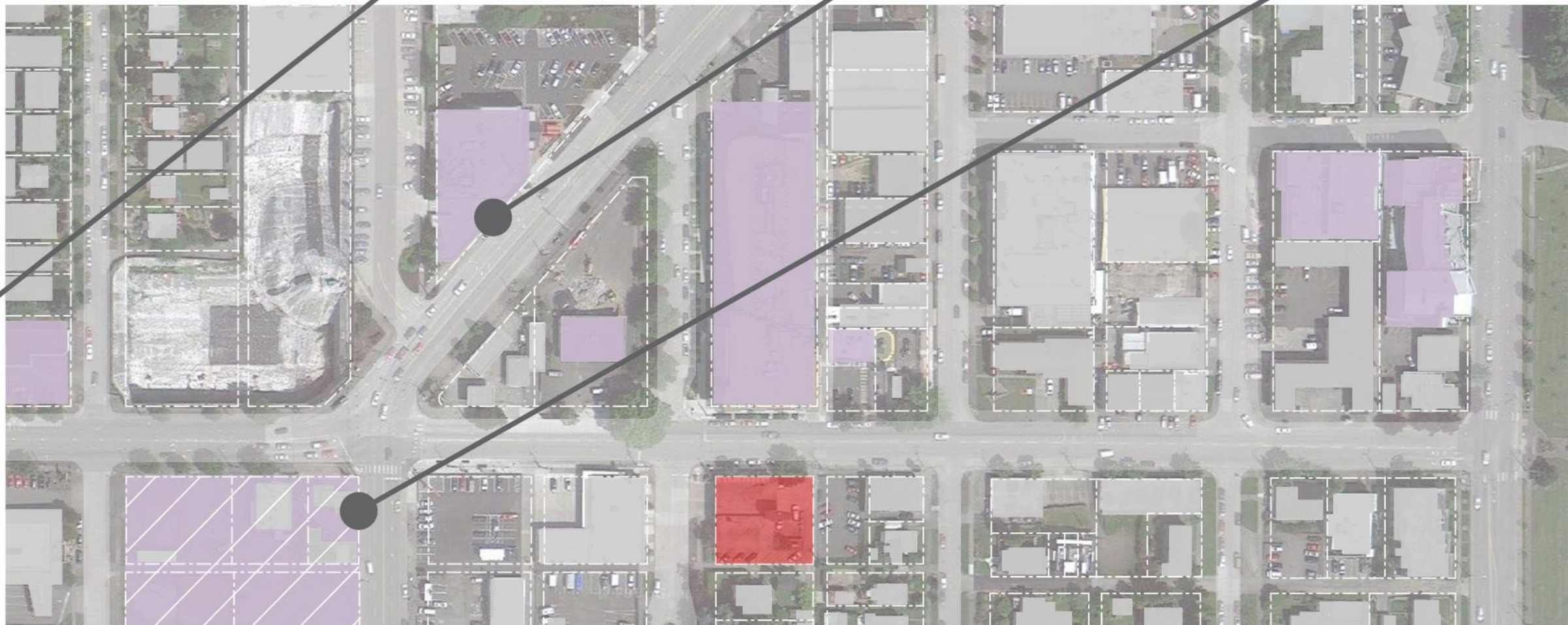
EXISTING NEIGHBORHOOD BUILDINGS - OLDER



EXISTING NEIGHBORHOOD BUILDINGS - NEWER



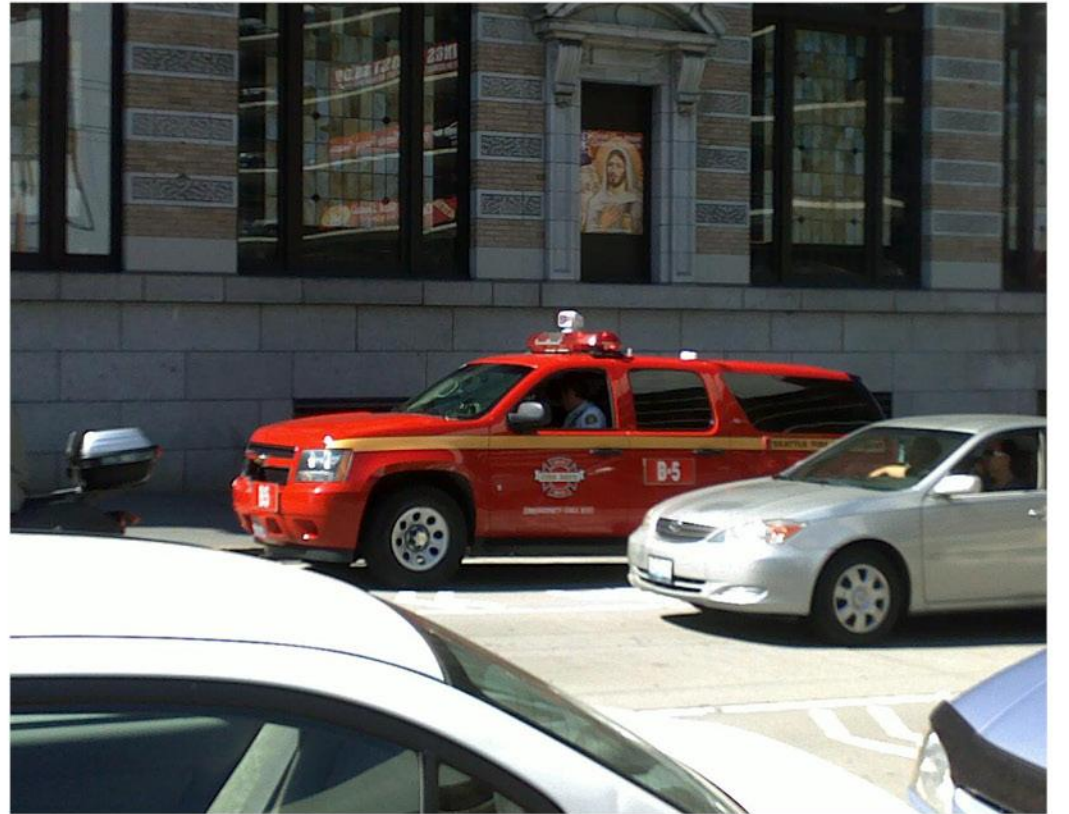
RENDERING OF FUTURE DEVELOPMENT



EXISTING NEIGHBORHOOD BUILDINGS - NEWER



TILLERED LADDER TRUCK



BATTALION CHIEF'S VEHICLE

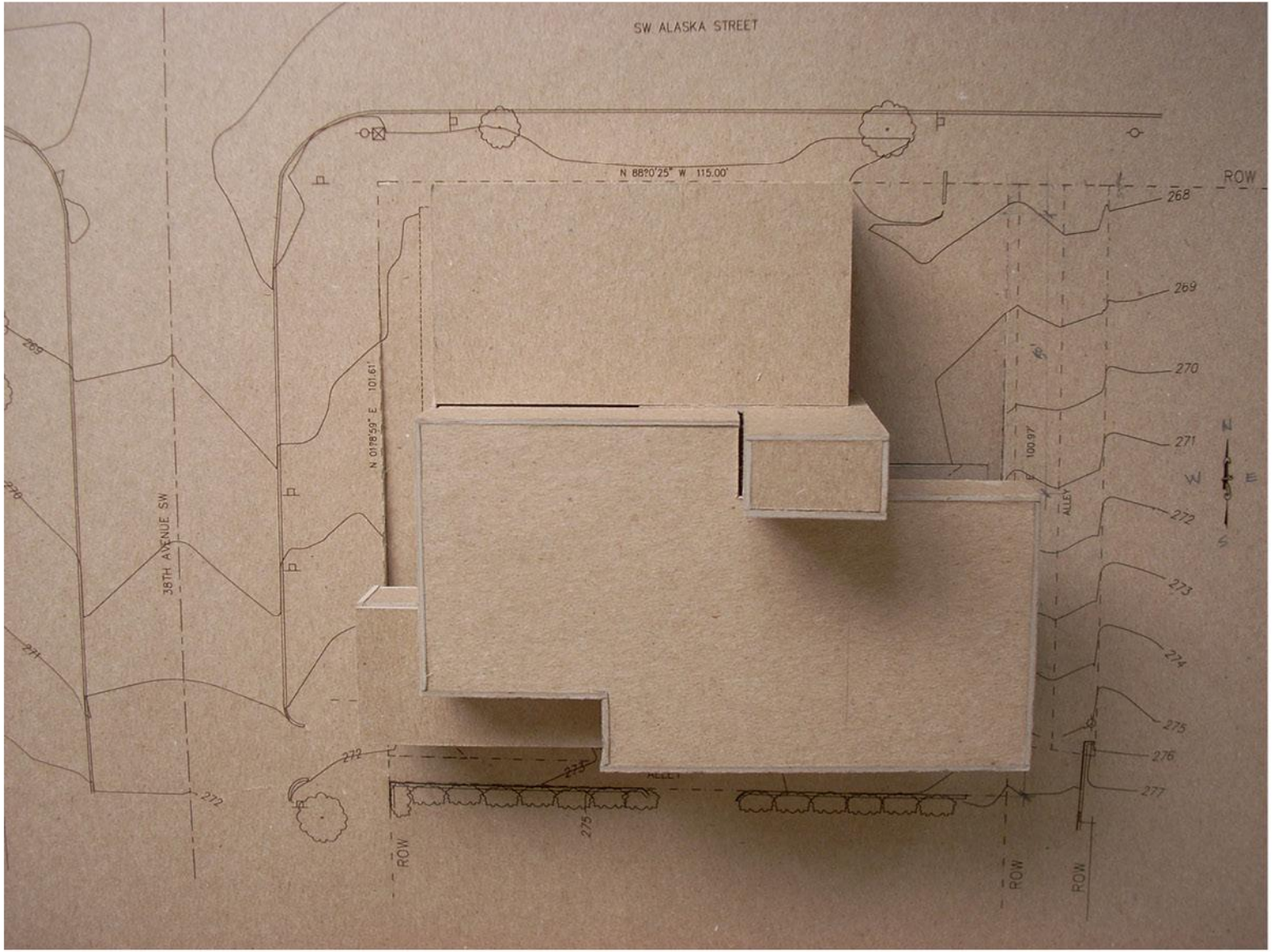
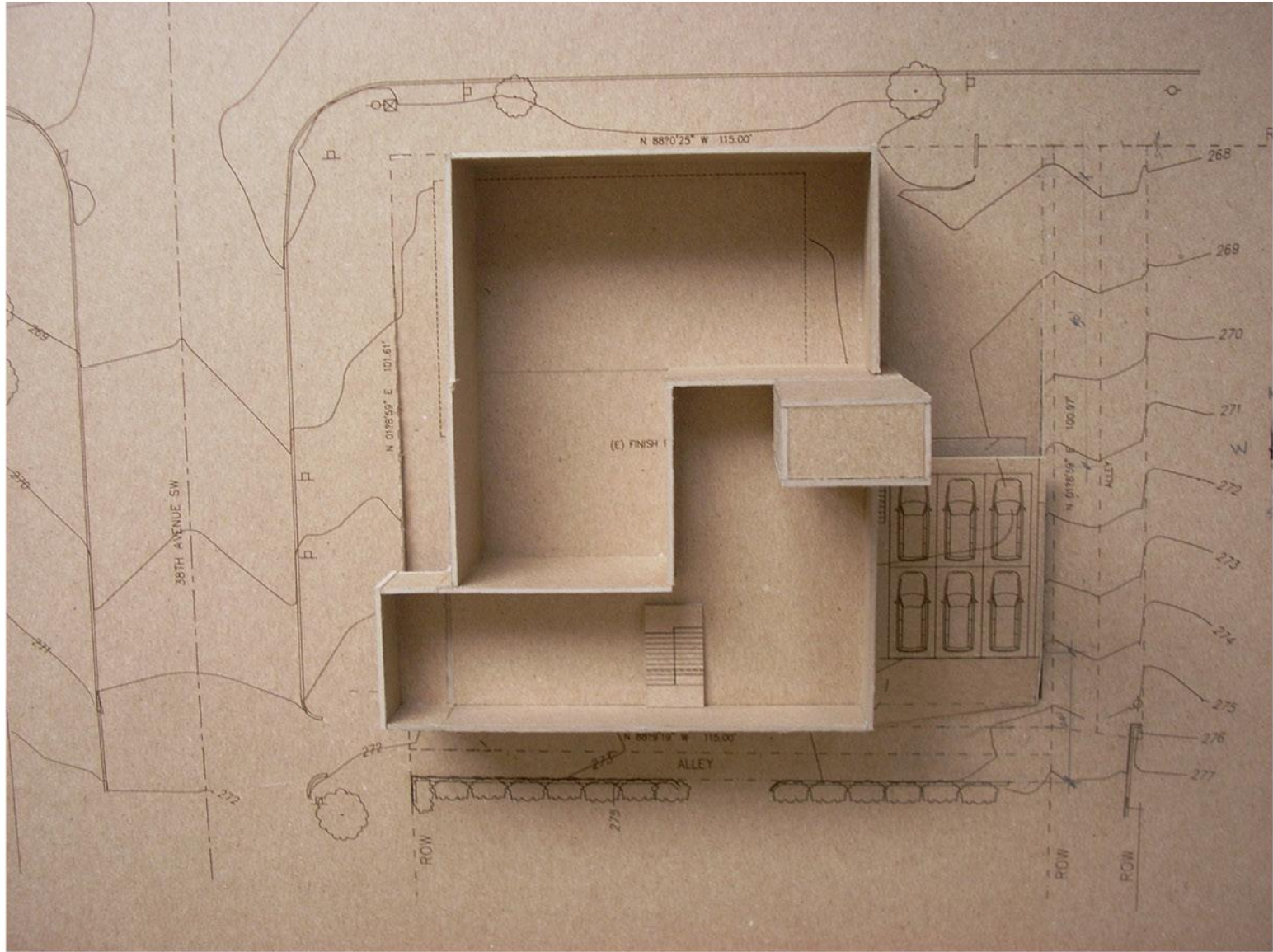


MEDIC TRUCK



ENGINE

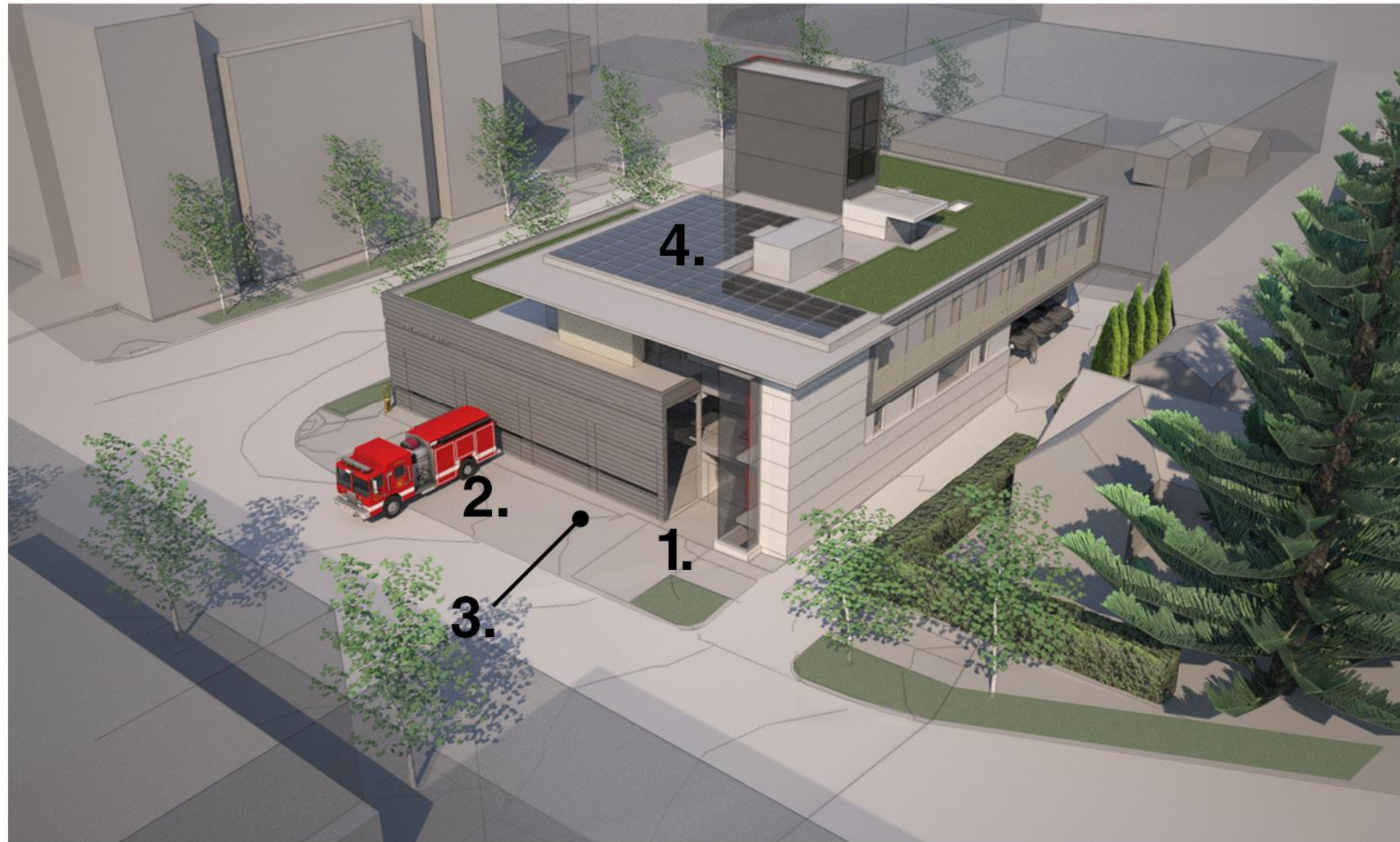
APPARATUS



PRE-DESIGN CONCEPT MODEL



VIEW FROM THE INTERSECTION OF SW ALASKA ST AND 38TH AVE SW



SDC SCHEMATIC DESIGN RECOMMENDATIONS

1. Soften the hard-scape around the public entry on 38th Ave SW.
2. Explore differentiating pavement textures to visualize pedestrian routes on the front ramp.
3. Study daylighting options for the basement training area.
4. Be sure the PV rooftop panels are not shaded and are a cost-effective element.

SCHEMATIC DESIGN - AERIAL VIEW FROM SOUTHWEST



SDC SCHEMATIC DESIGN RECOMMENDATIONS

5. Resolve the massing of the east part of the building, aligning and optimizing programming while harmonizing the building elements. This side of the building along the alley is visible from SW Alaska St and, instead of appearing to be back-of-house, should allow room for the public to engage with firefighters.
6. Ensure the street trees provide transparency into the building along SW Alaska St.
7. Consider paving options or soft treatment buffers at the rear apron and sidewalk along SW Alaska St to improve this area of the design.

SCHEMATIC DESIGN - AERIAL VIEW FROM NORTHEAST



AERIAL LADDER CHECK



LADDER DRILL

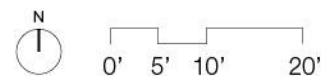
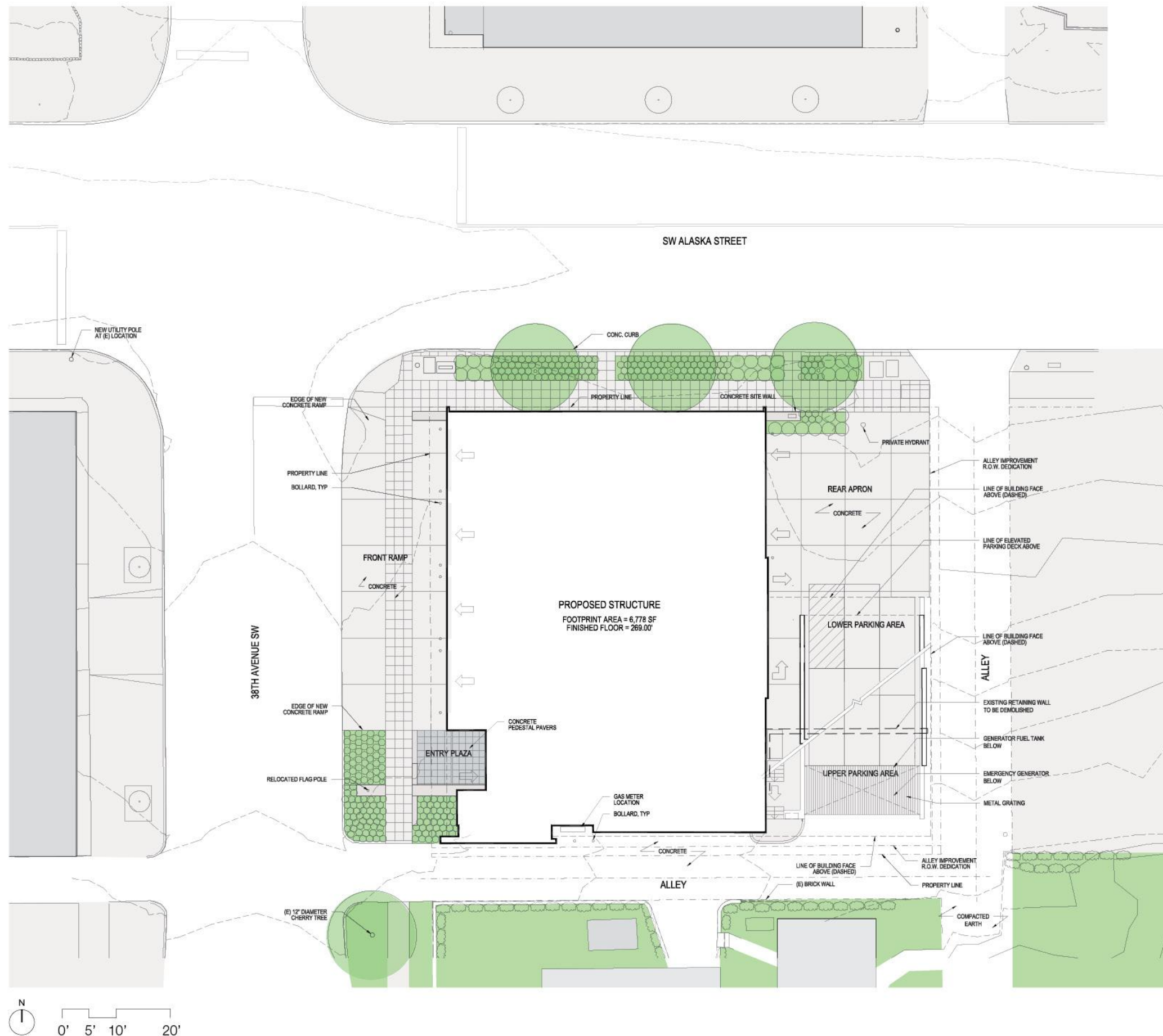


EQUIPMENT CHECK



WATER DRILLING

STATION ACTIVITIES



SITE PLAN

1 SW ALASKA STREET

Golden Raindrop Crabapple



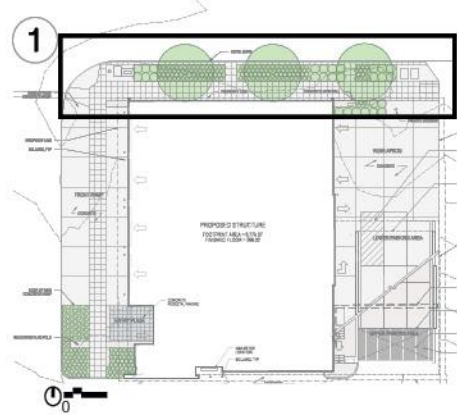
Yew



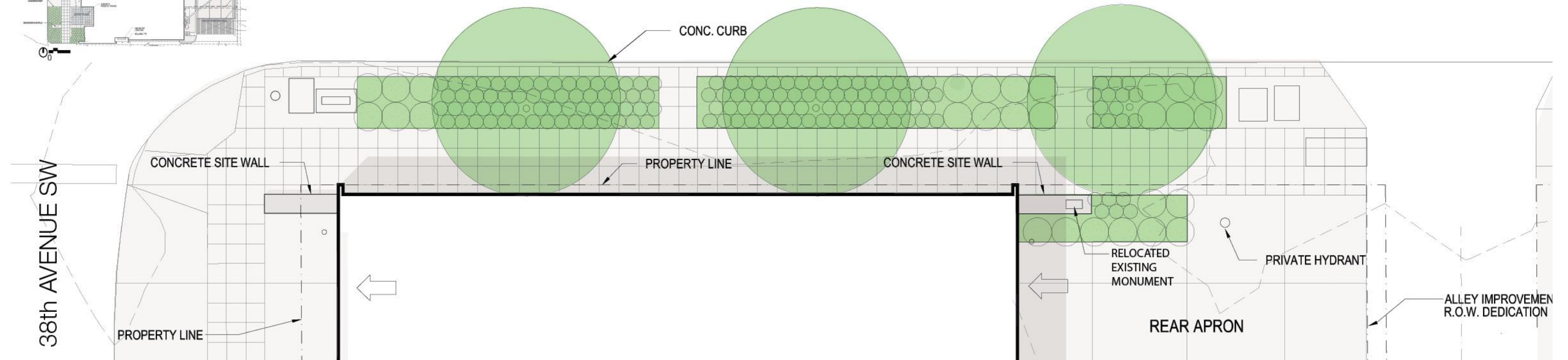
Lily Turf



Anemone



SW ALASKA STREET



SW ALASKA LANDSCAPE DESIGN

2

Blue Oat Grass



Russian Sage



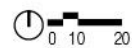
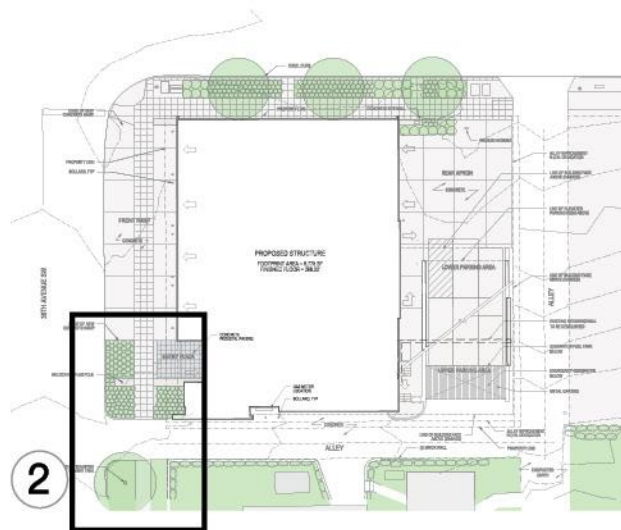
Autumn Joy Sedum



Beach Strawberry



Sedum



38th AVENUE SW

EDGE OF NEW
CONCRETE RAMP

RELOCATED FLAG POLE

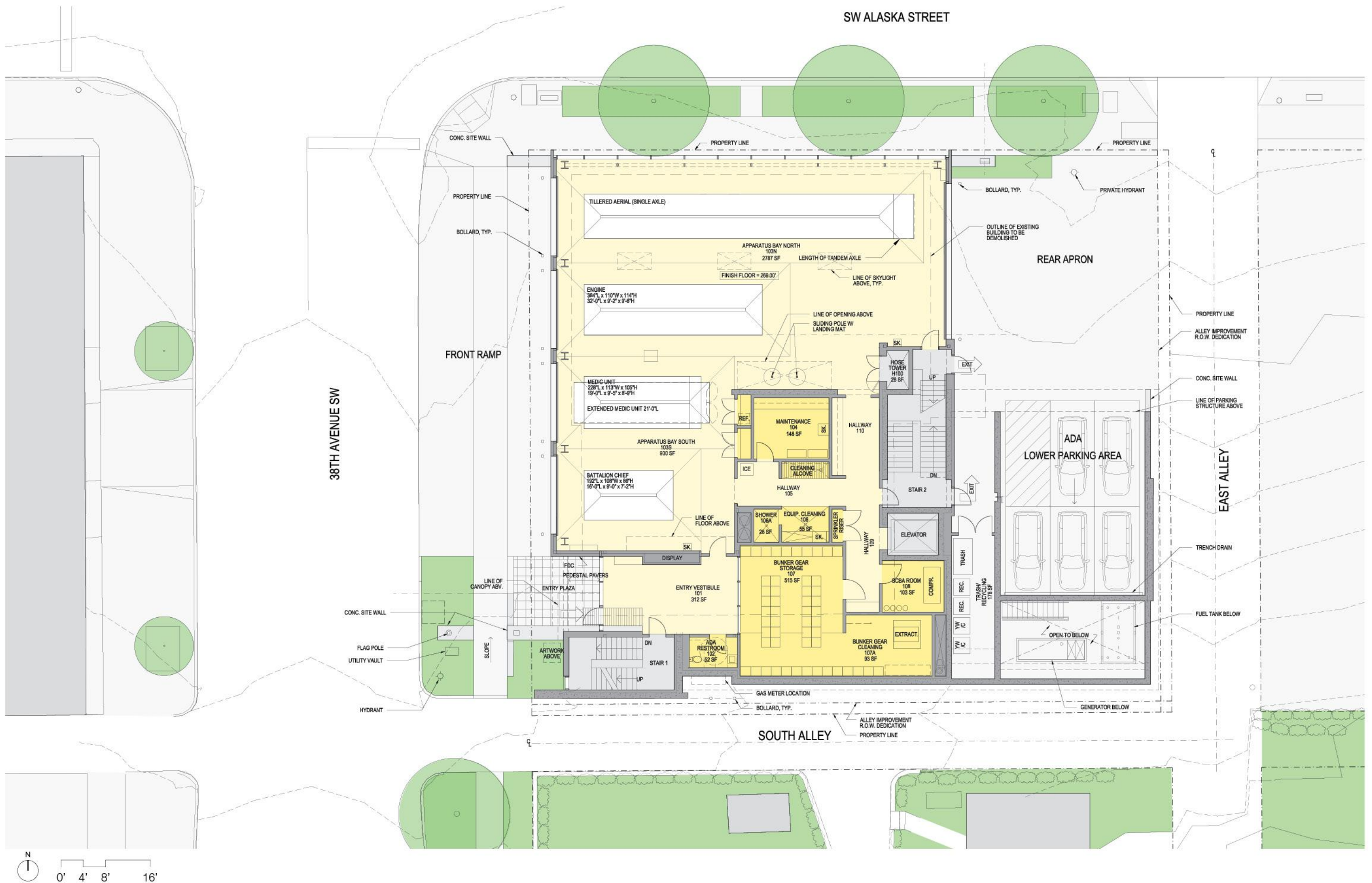
CONCRETE
PEDESTAL PAVERS

ENTRY PLAZA

SOUTH ALLEY

(E) 12" DIAMETER
CHERRY TREE

ENTRY AREA LANDSCAPE DESIGN

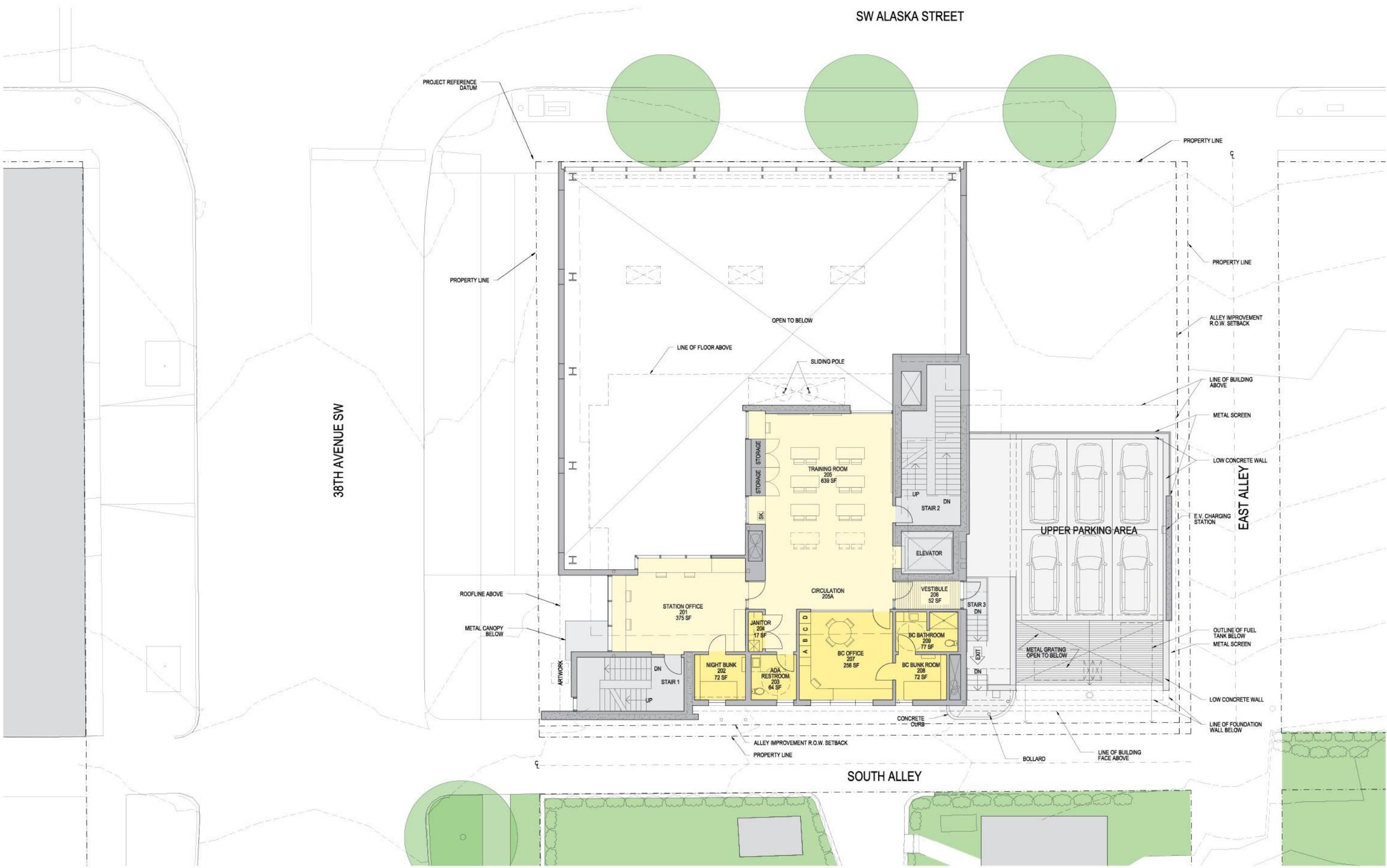


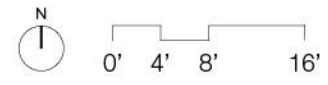
FLOOR 1

38TH AVENUE SW

EAST ALLEY

SOUTH ALLEY



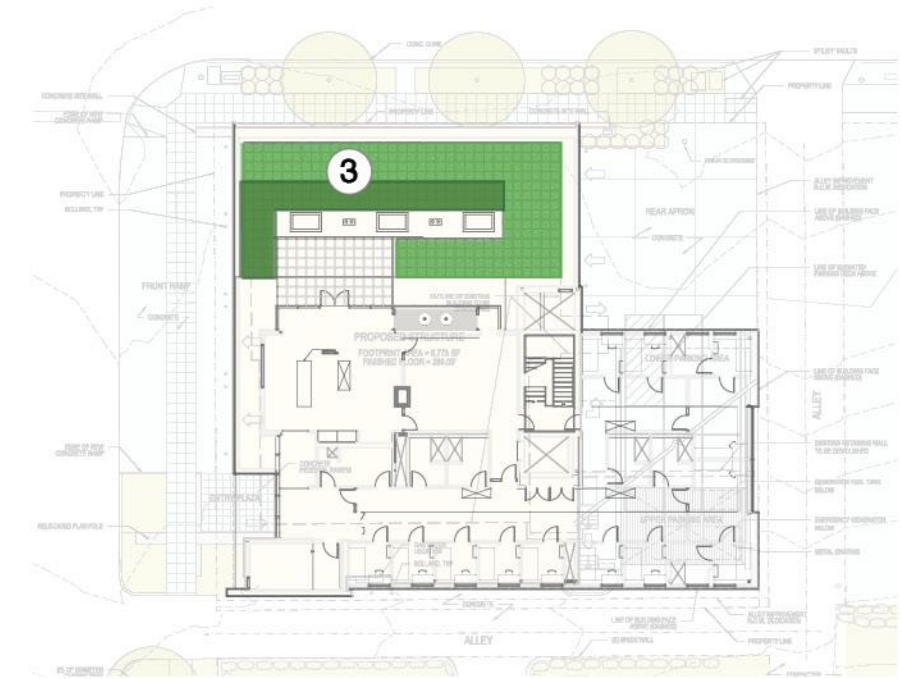
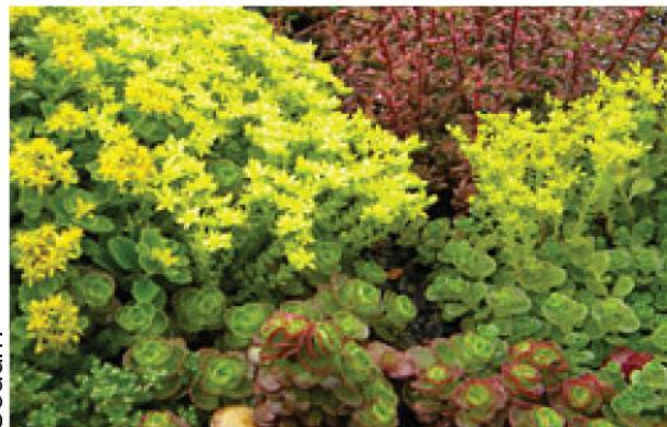


FLOOR 3

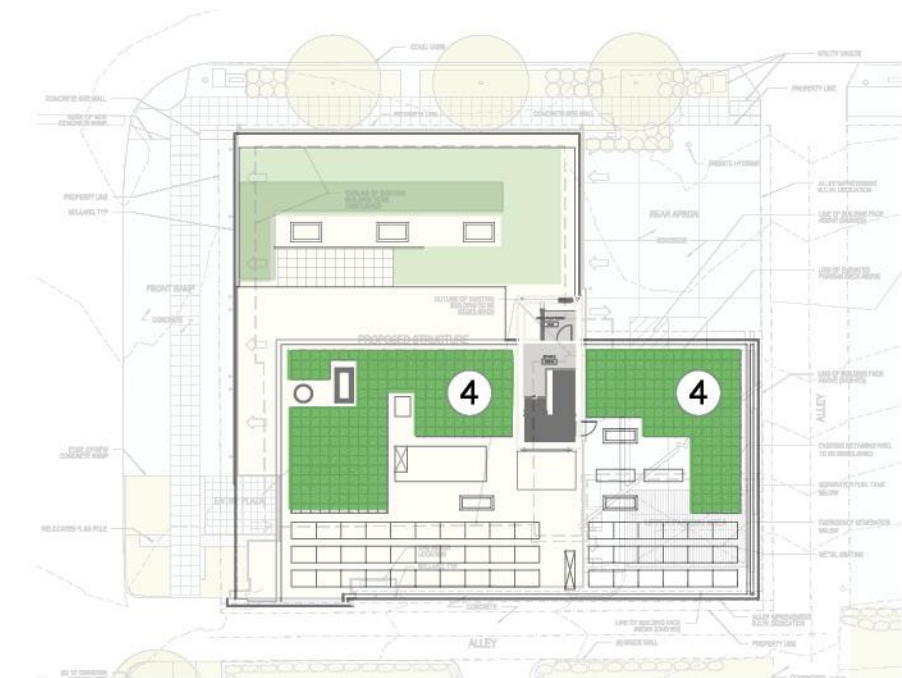
Karl Foerster Grass

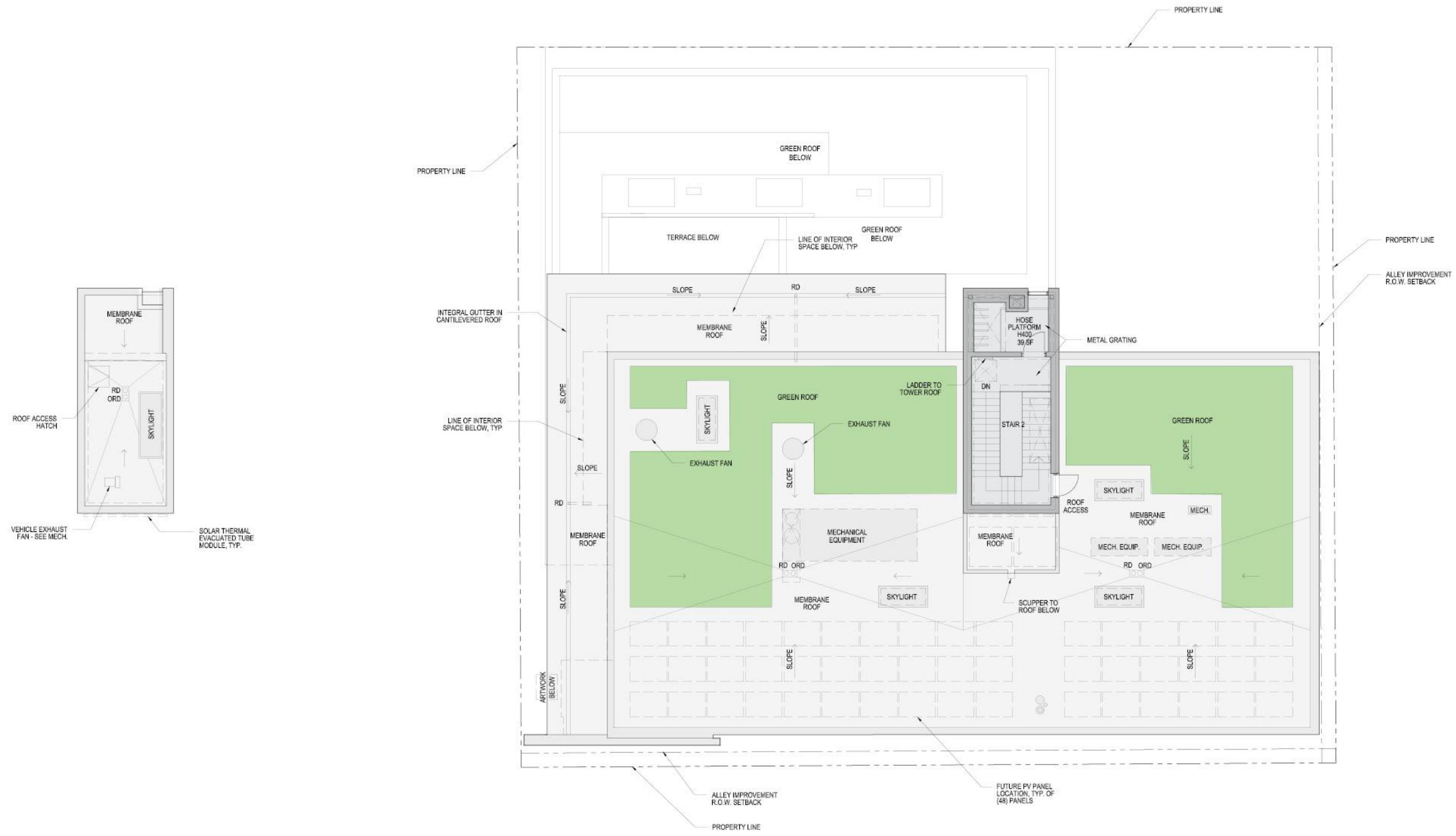


Sedum

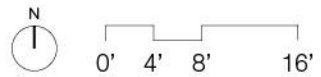
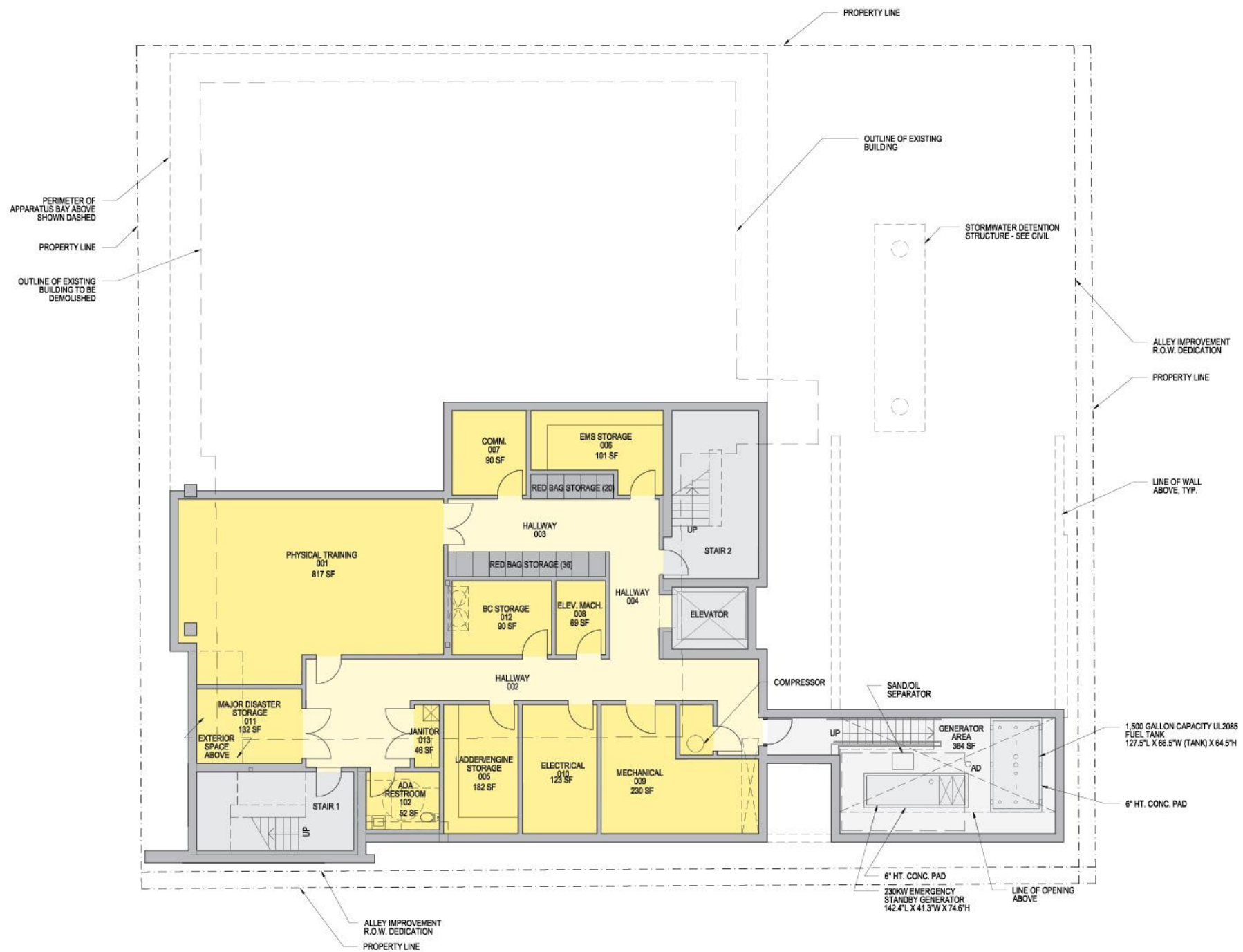


Roof

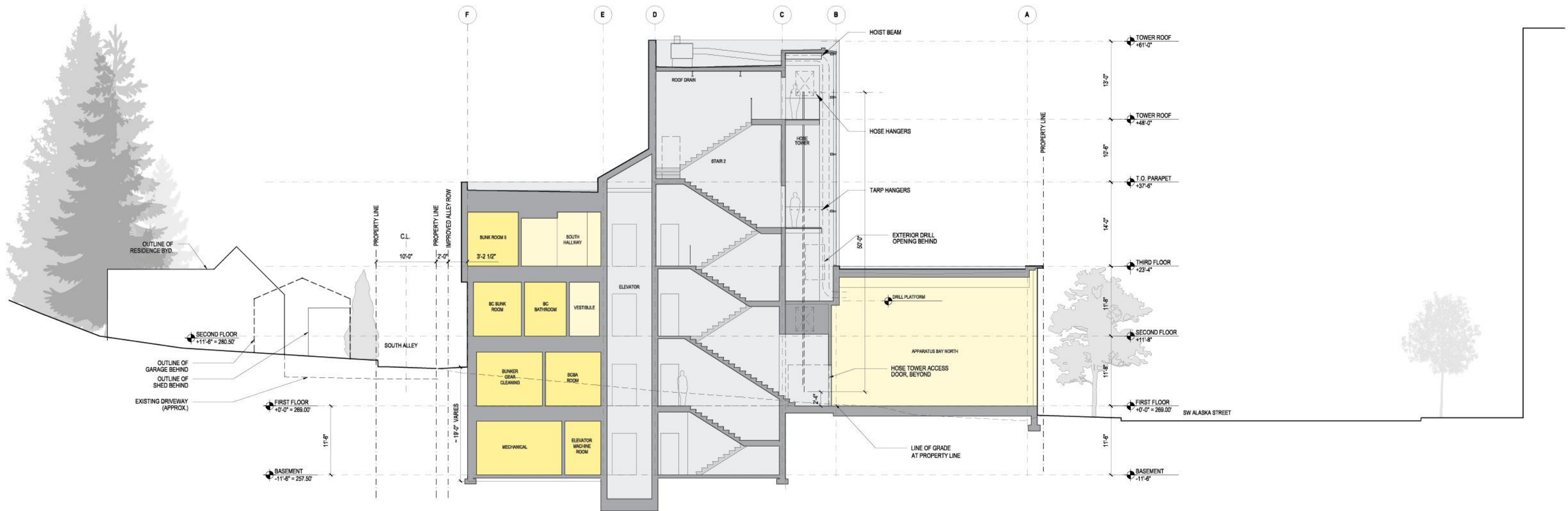




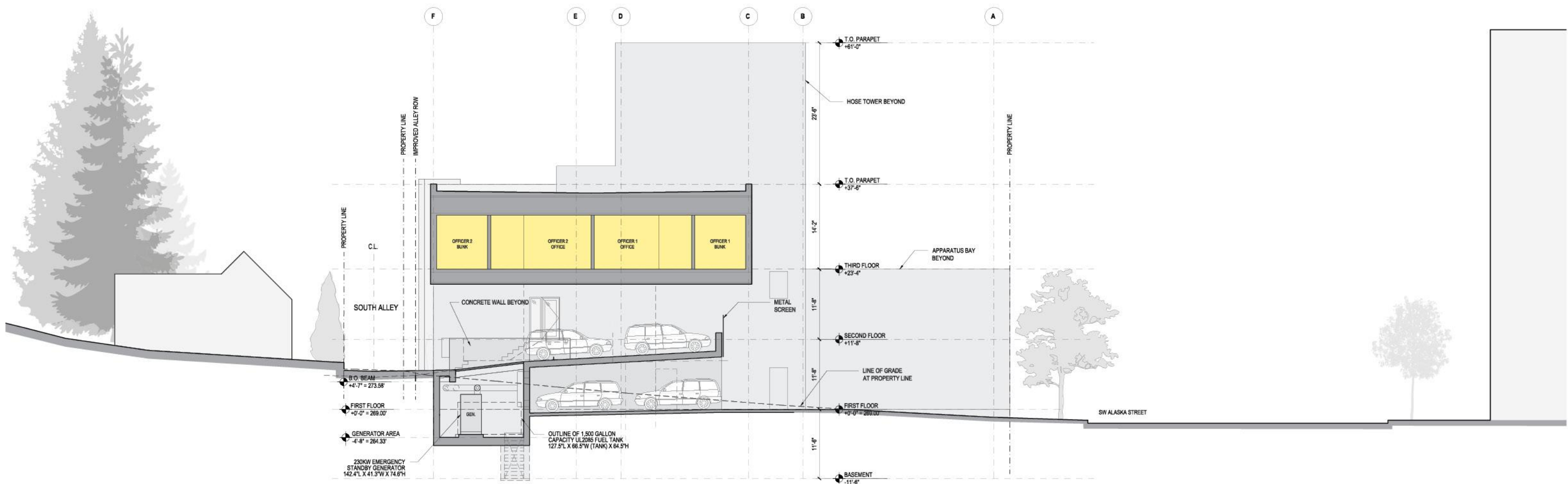
ROOF PLAN



BASEMENT



SECTION THROUGH HOSE TOWER LOOKING WEST



SECTION THROUGH PARKING LOOKING WEST



AERIAL VIEW FROM NORTHEAST

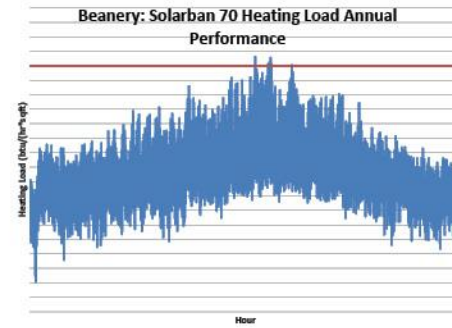
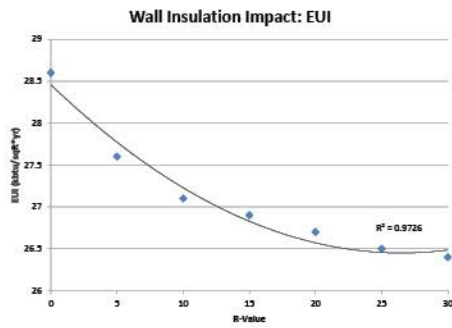
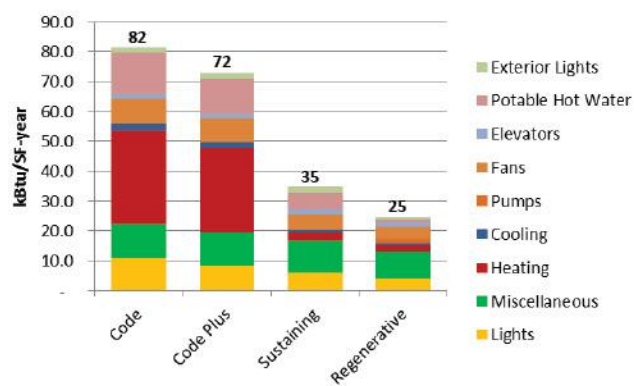
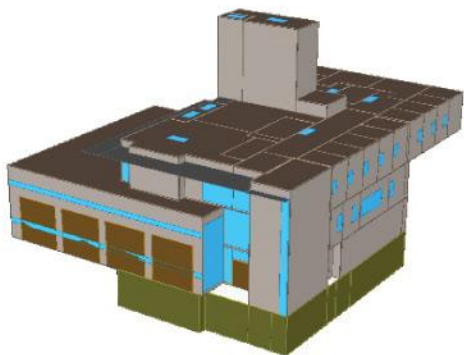


AERIAL VIEW FROM NORTHWEST

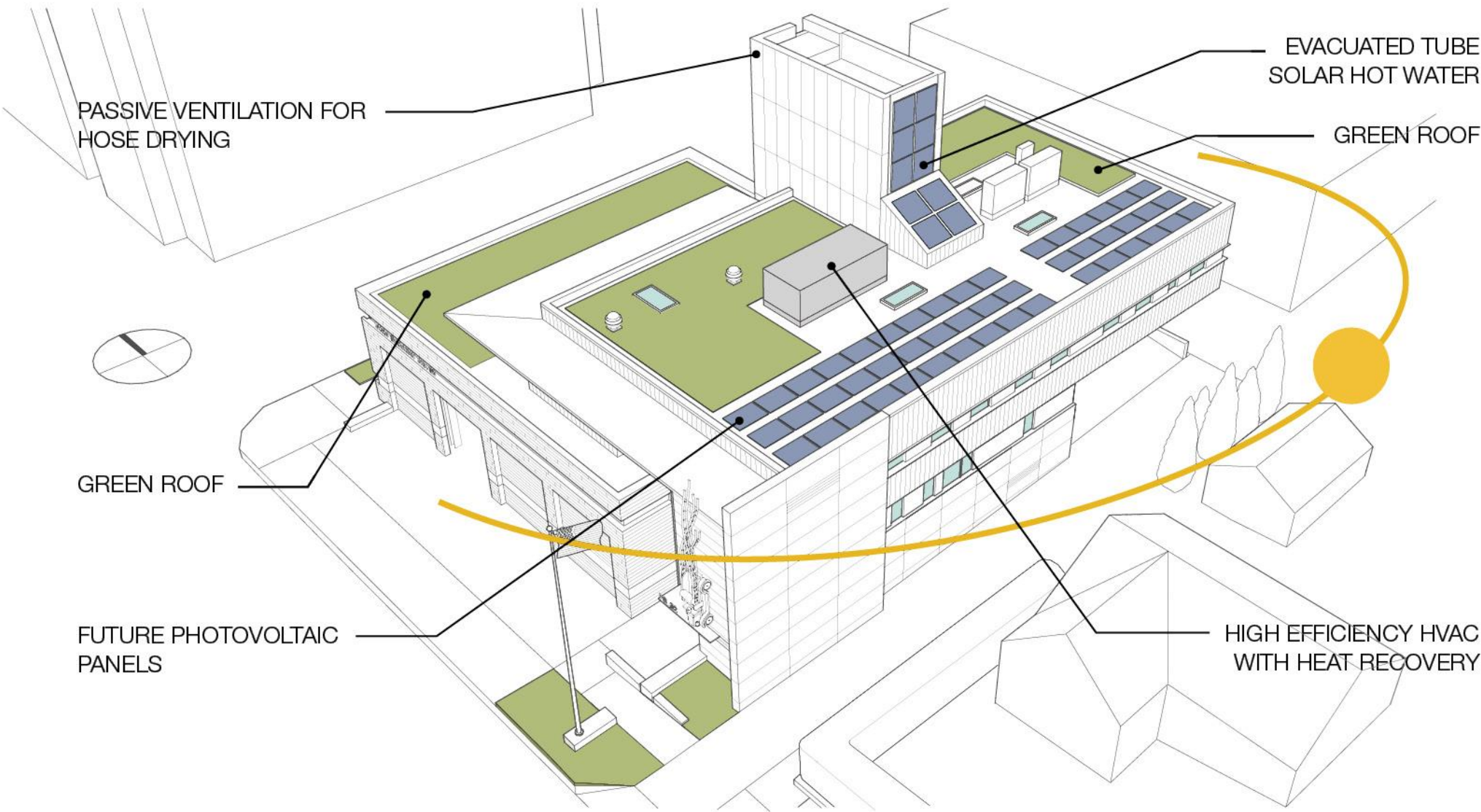


AERIAL VIEW FROM SOUTHEAST

ENERGY ANALYSIS



BUILDING SYSTEMS



LEED

Required Certification:	Gold	60-79 Points
Target Certification:	Platinum	80+ Points
Anticipated LEED Credits:		79-86 Points

SUSTAINABILITY STRATEGIES

ENERGY

- Highly insulated building envelope
- High performance glazing
- Passive ventilation for hose drying
- Thermal mass
- Daylighting of occupied spaces
- Lighting and power outlet controls
- High efficiency HVAC system with energy recovery
- High efficiency appliances
- Solar thermal domestic water heating
- Ready for future photovoltaic energy production

WATER

- Low-flow plumbing fixtures
- Drought-tolerant, native vegetation

SITE AND NEIGHBORHOOD

- Green roofs
- Street trees and low planting
- Electric car charging station

MATERIALS

- Durable, low-maintenance materials
- Low-VOC finishes
- Sustainably harvested wood products
- Red list material awareness
- Construction material reuse

SUSTAINABILITY

JUNE 21 (SUMMER SOLSTICE)

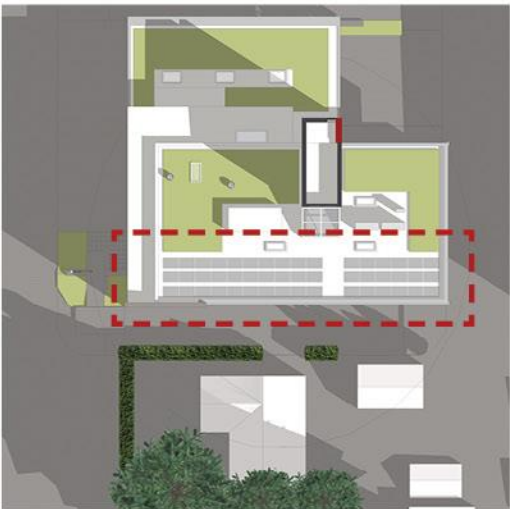
MARCH/SEPTEMBER 21 (EQUINOX)

FEBRUARY/OCTOBER 21

DECEMBER 21 (WINTER SOLSTICE)

PREVIOUS STUDIES (3 PM, MARCH)

MORNING:
9 AM



PRE-DESIGN STUDY

NOON:
12 PM

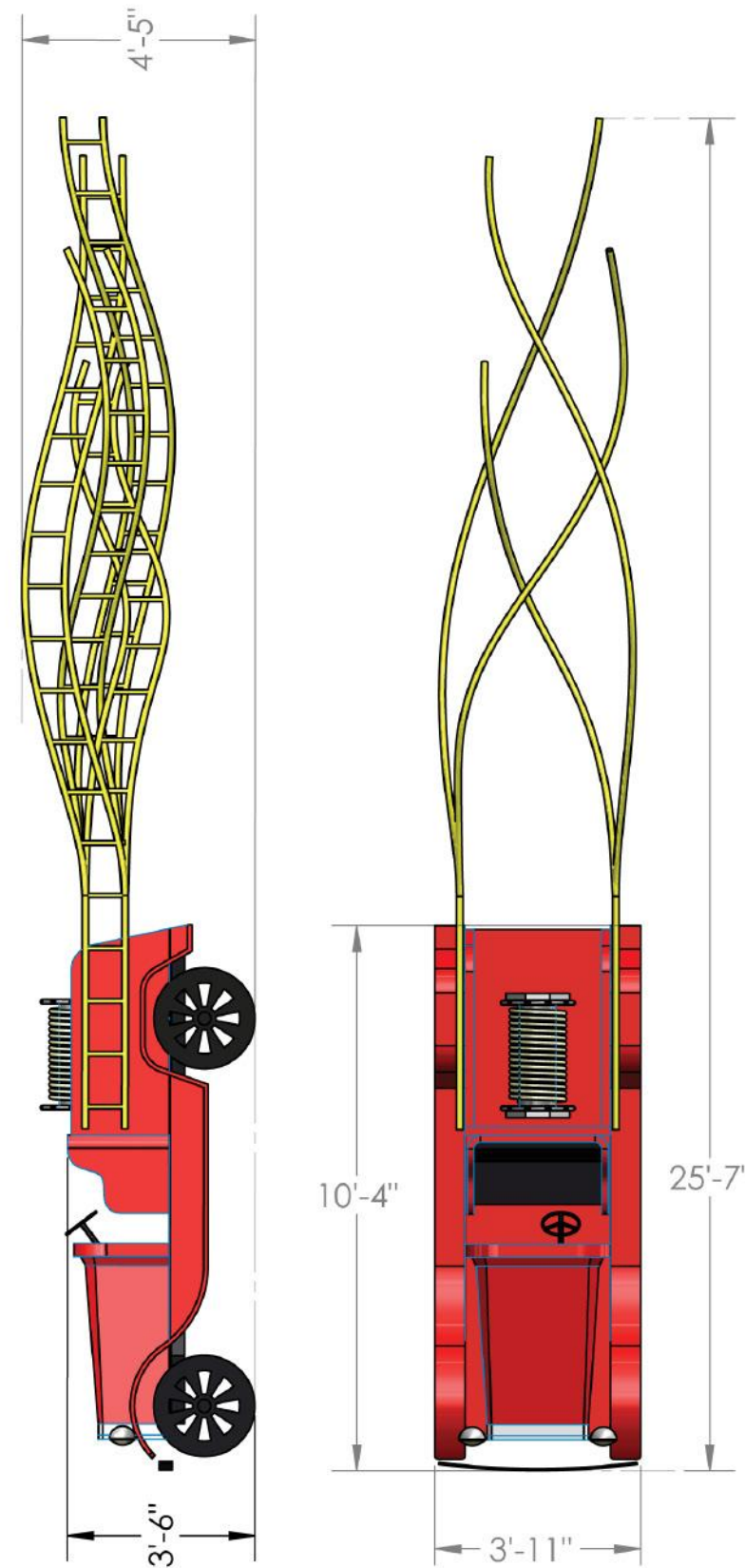


SCHEMATIC DESIGN STUDY

AFTERNOON:
3 PM



ROOFTOP PV ARRAY SOLAR EXPOSURE STUDIES



SEAN ORLANDO
ENGINEERED
ARTWORKS

"Engine 32 1/2"
West Seattle Fire Station 32
Public Art Concept



PUBLIC ART INSTALLATION



VIEW OF PUBLIC ENTRY LOOKING EAST

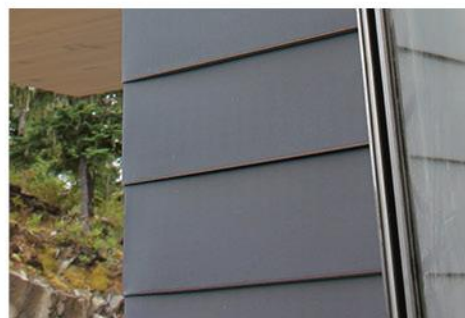


VIEW ALONG SW ALASKA ST LOOKING WEST

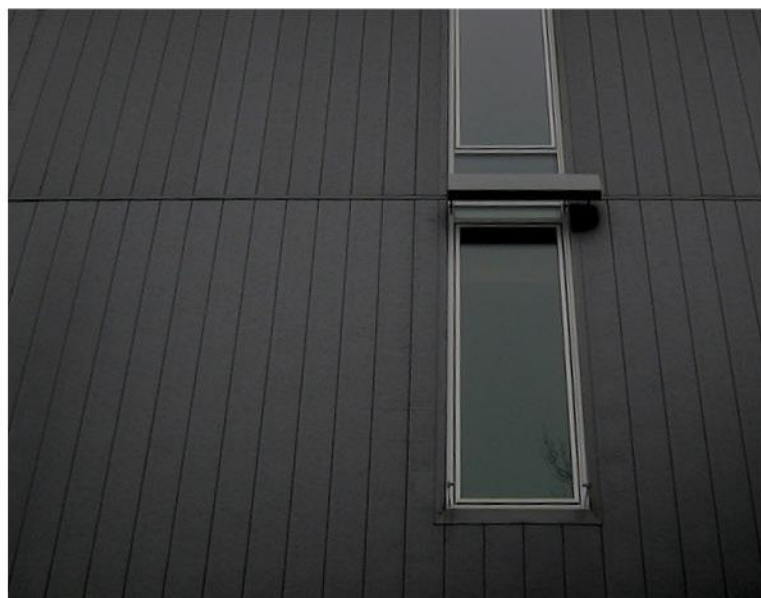
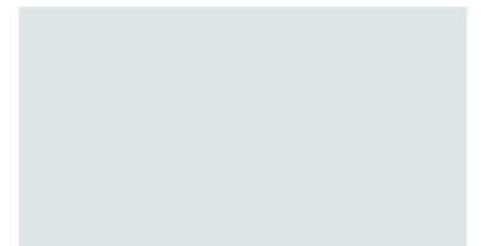




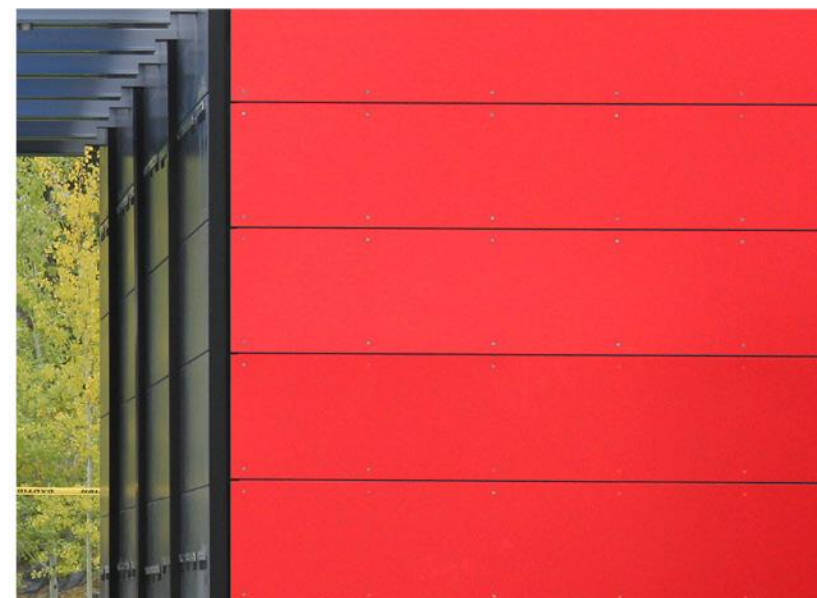
Type 1 - Pre-Finished Shingled Metal Cladding



Type 2A - Flush Face Metal Panel System with Micro Ribs



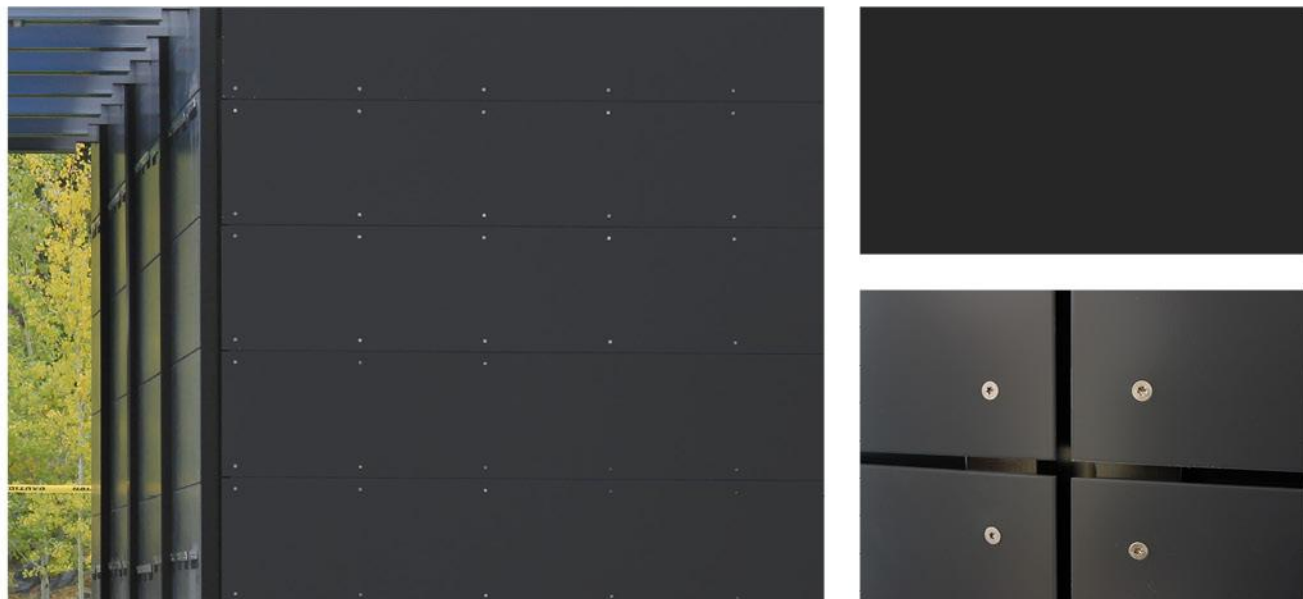
Type 2B - Flush Face Metal Panel System with Smooth Face



Type 3A - Pre-Finished Aluminum Plate Cladding with Exposed Fasteners



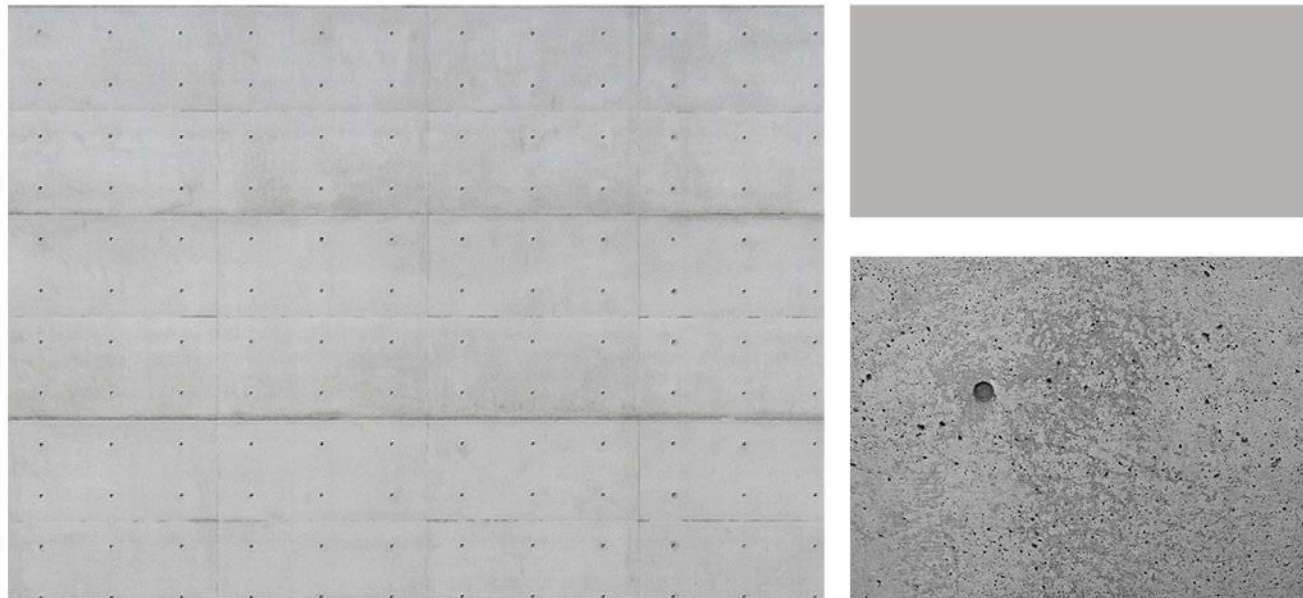
PROPOSED MATERIALS



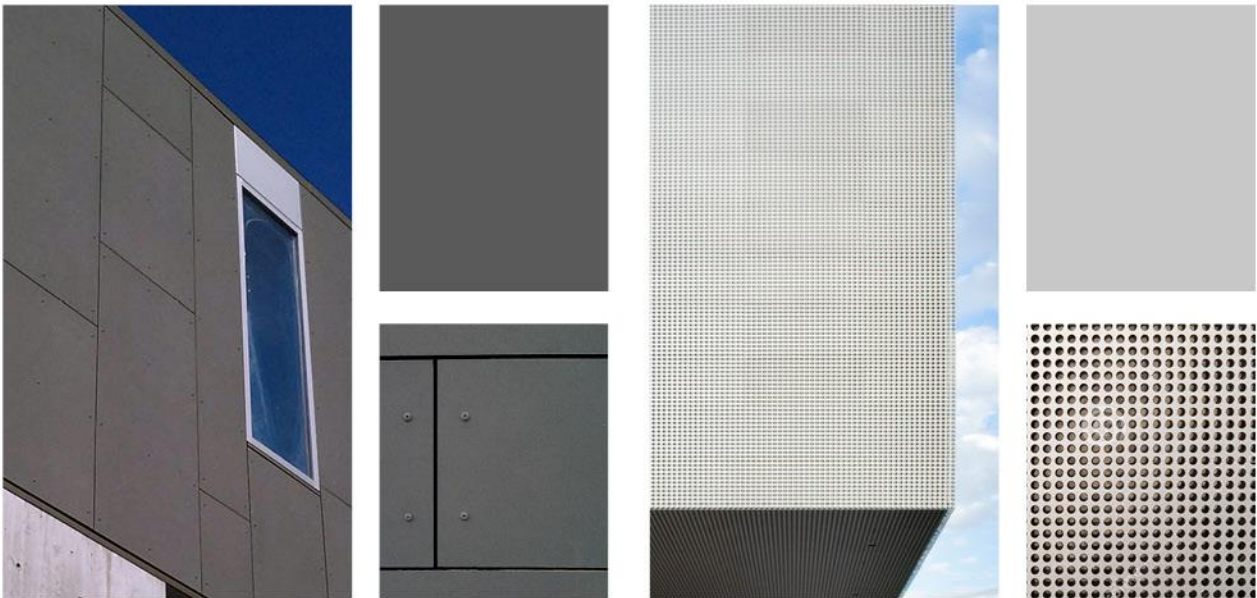
Type 3B - Pre-Finished Aluminum Plate Cladding with Exposed Fasteners



Overhead Doors



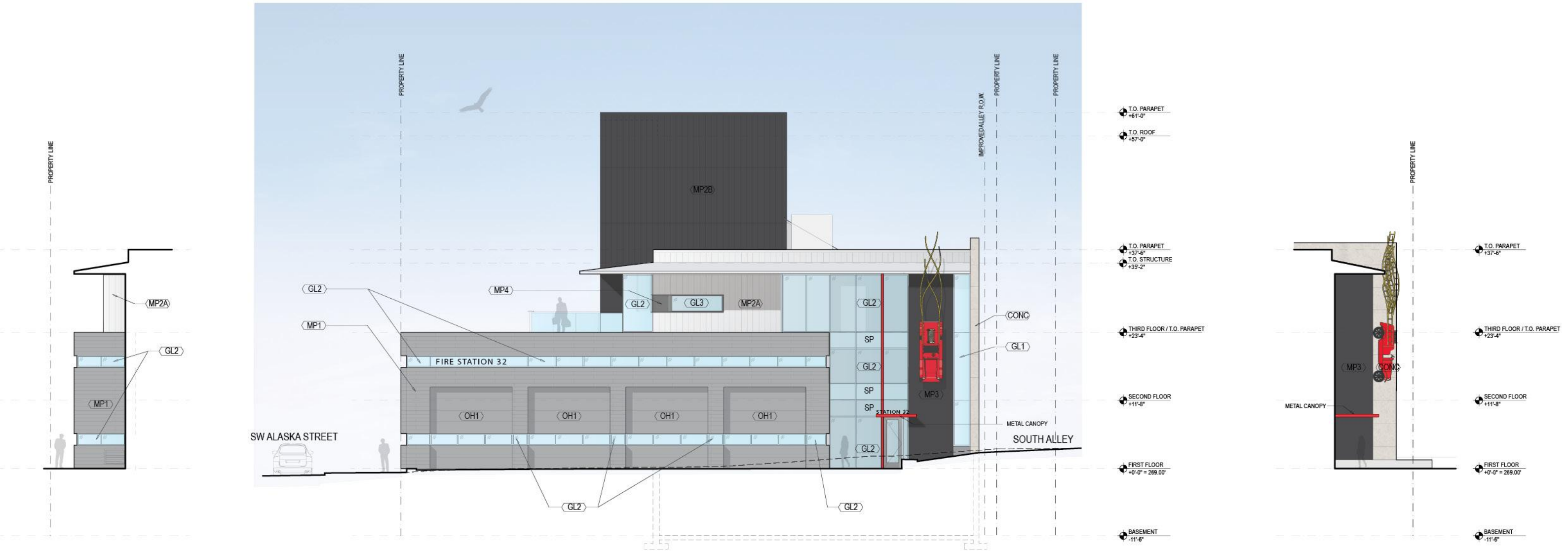
Cast in Place Concrete



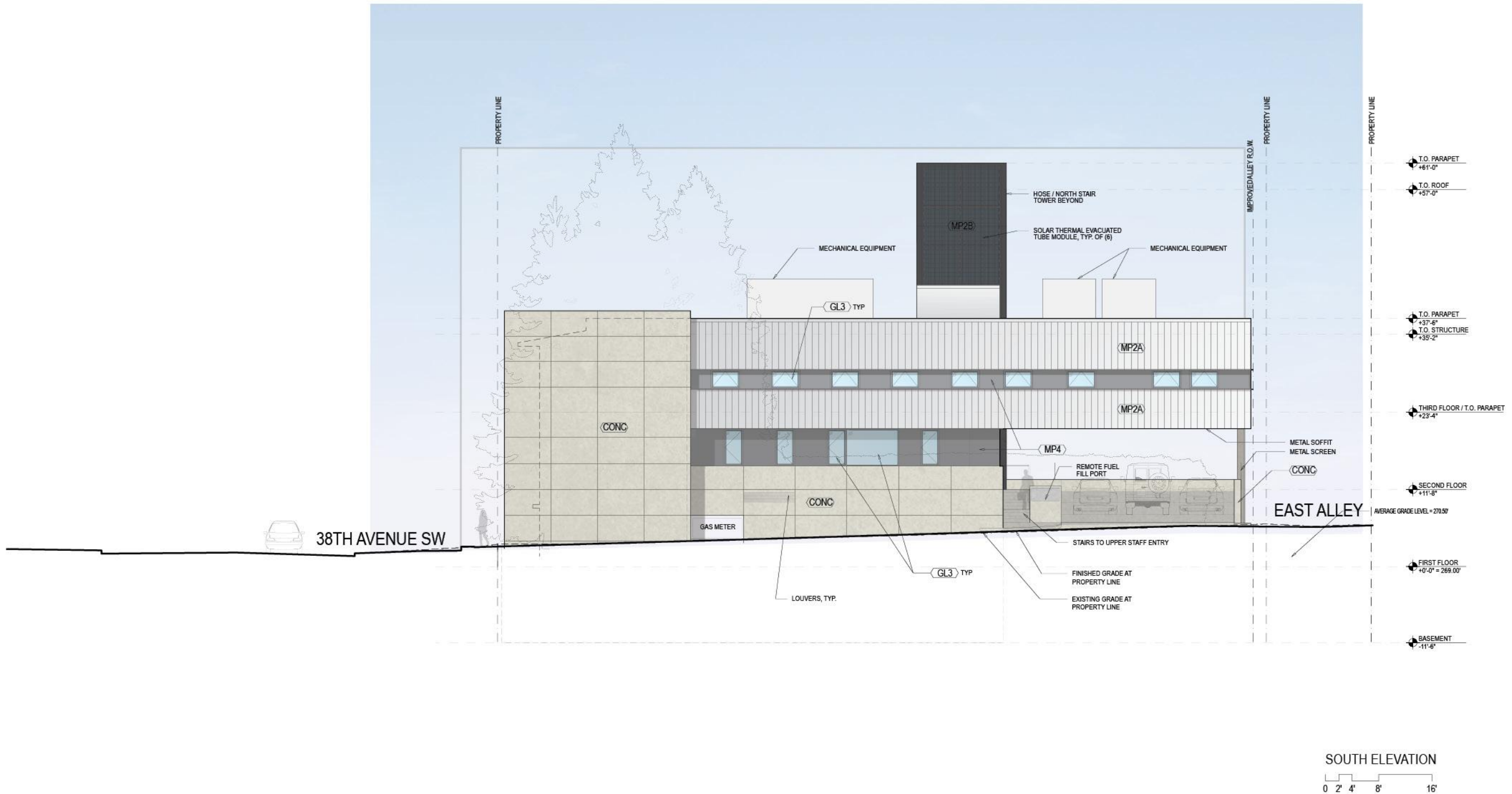
Fiber Reinforced Cement Panel with Integral Color

Metal Screen

PROPOSED MATERIALS



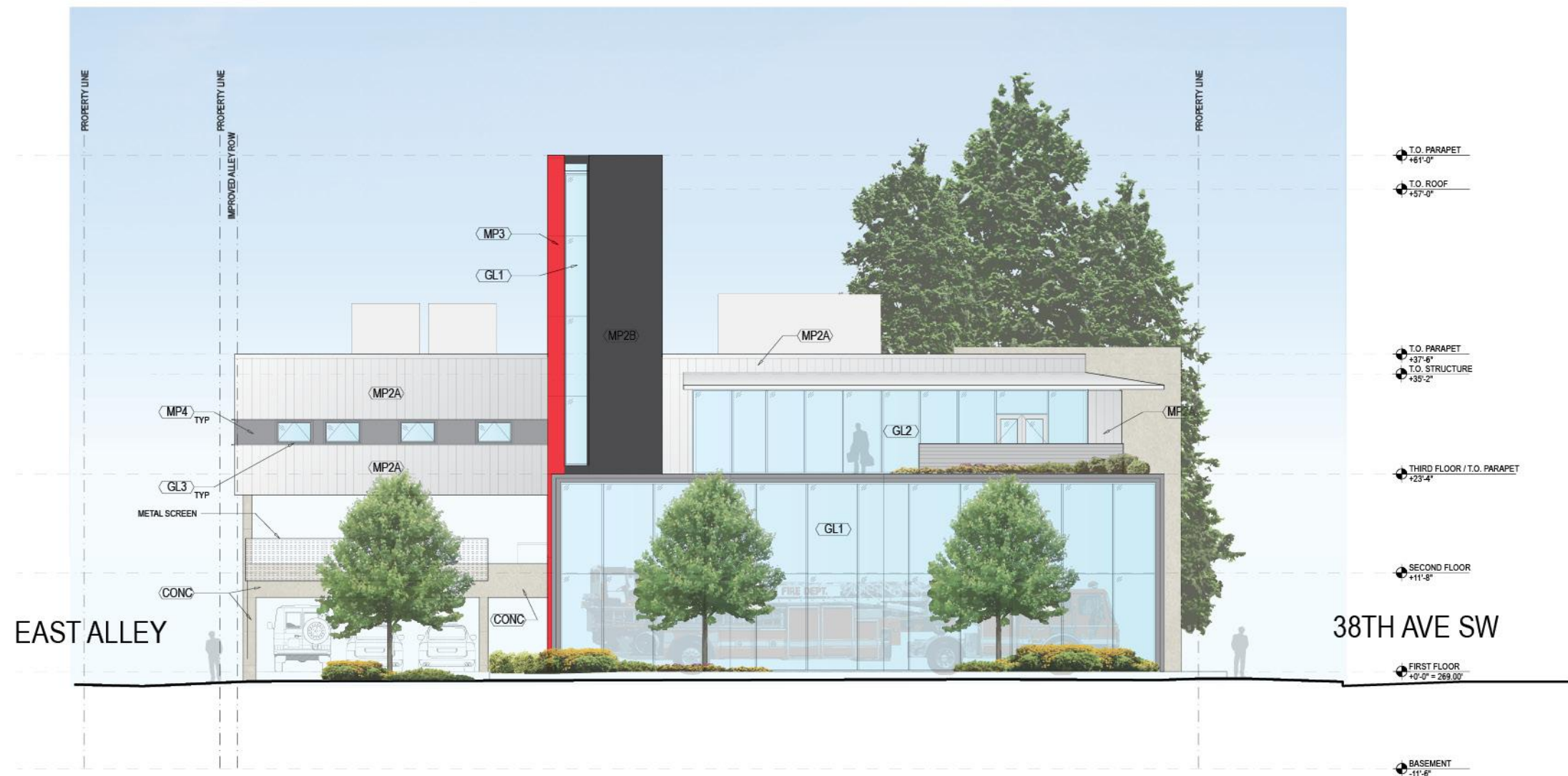
WEST ELEVATION



SOUTH ELEVATION



EAST ELEVATION



NORTH ELEVATION



CONCEPT RENDERING



STATION ILLUMINATED AT NIGHT

