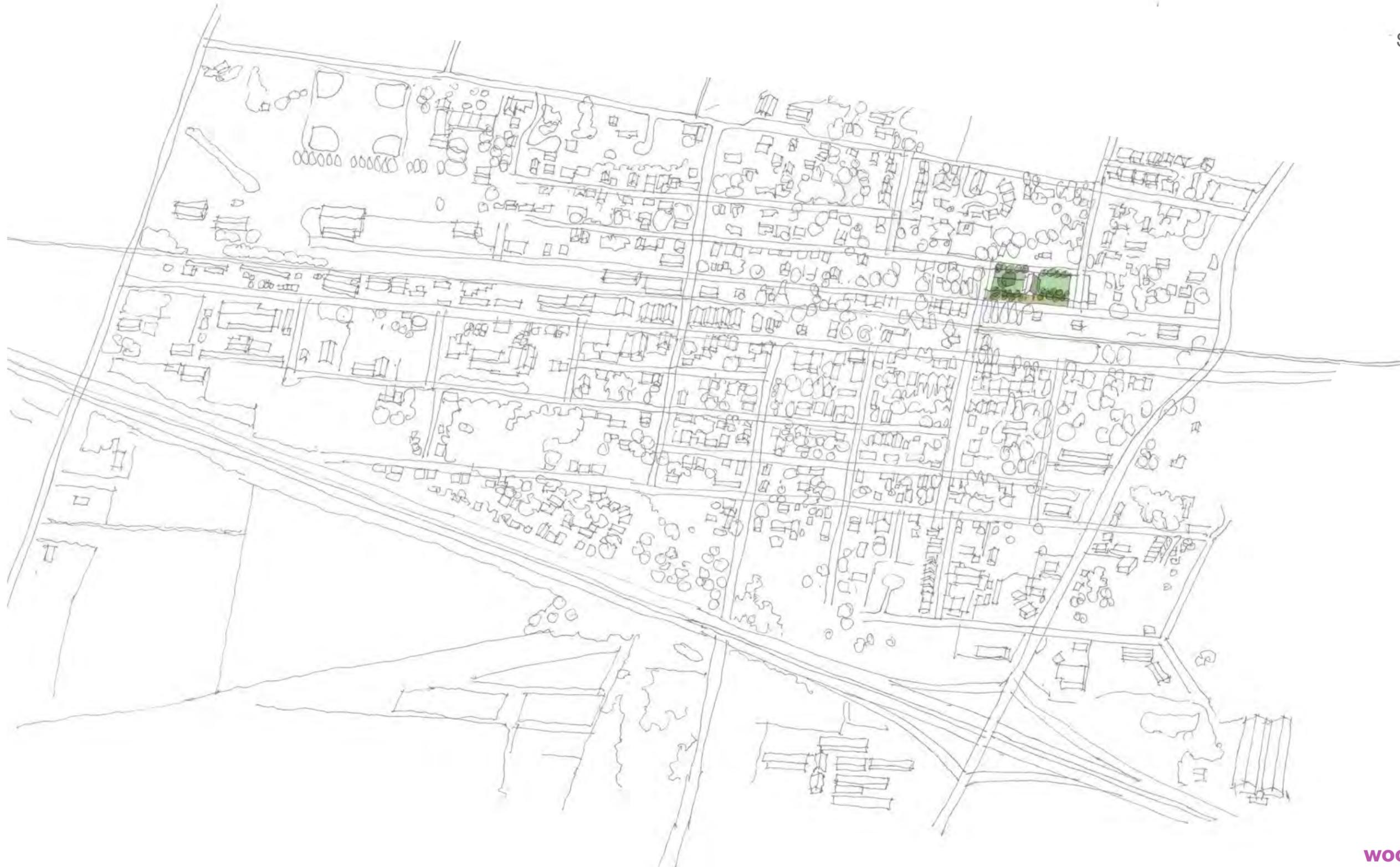
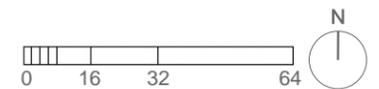
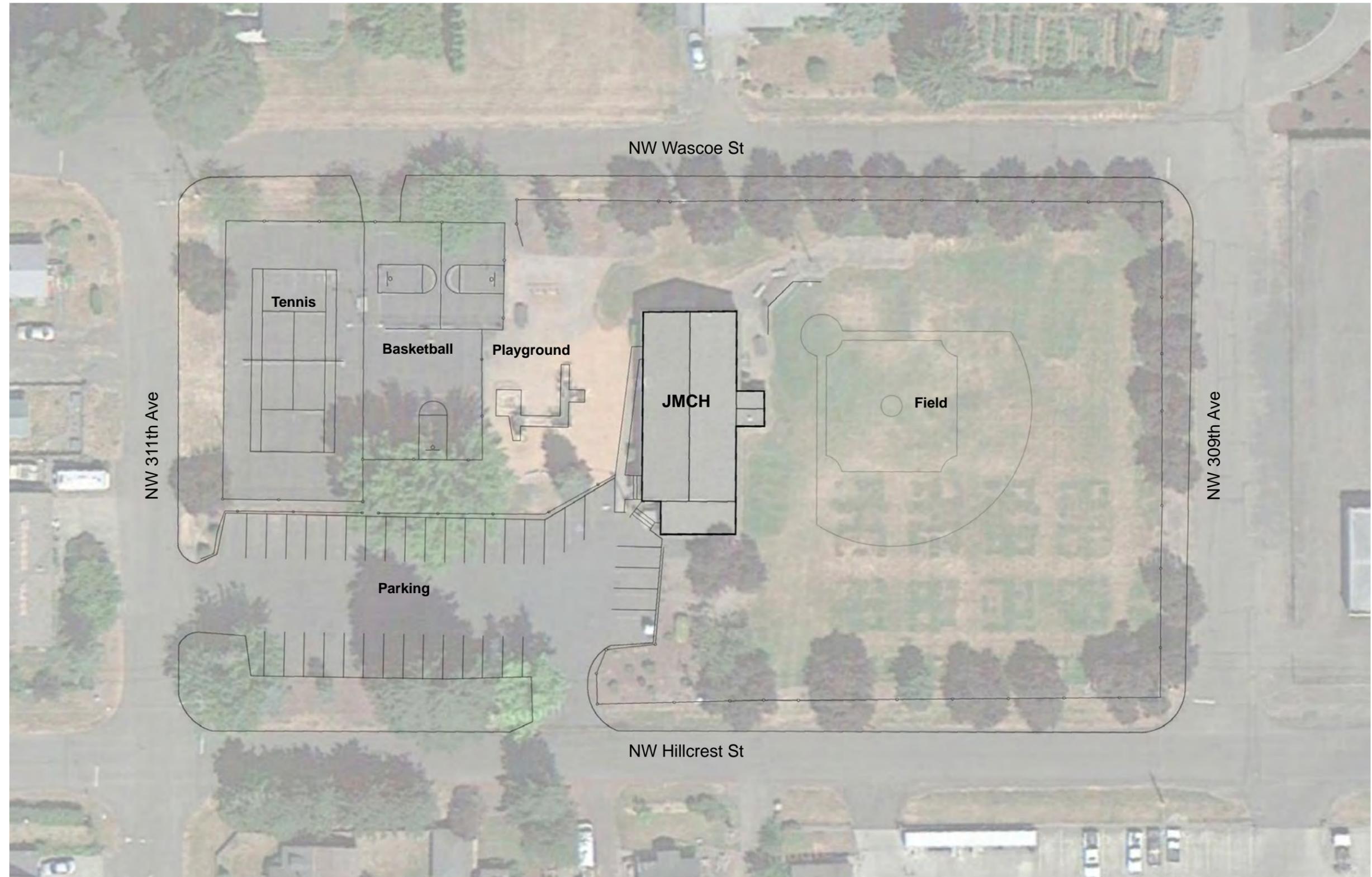


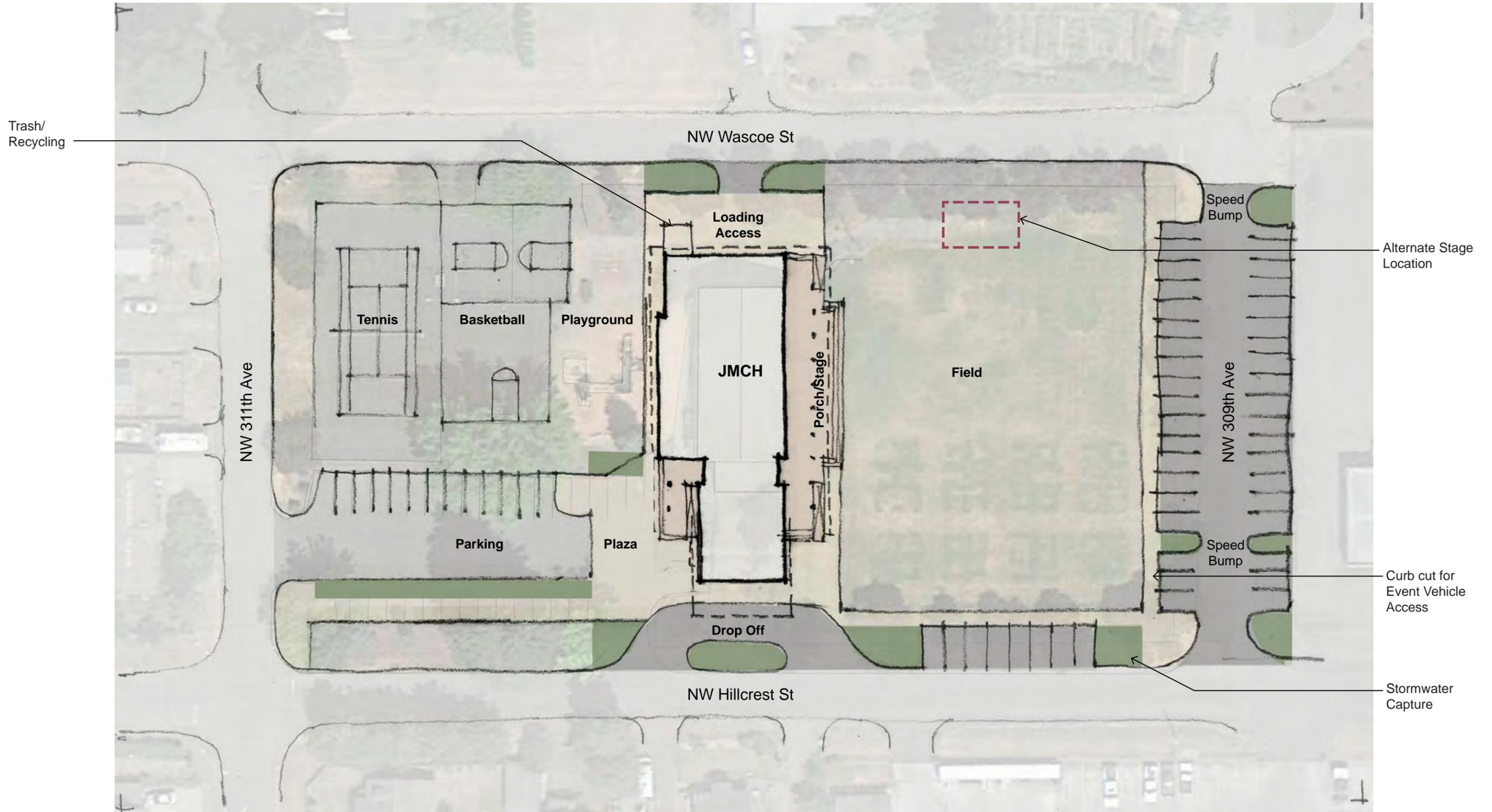
# JESSIE MAYS COMMUNITY HALL EXPANSION PROJECT

September 23, 2015

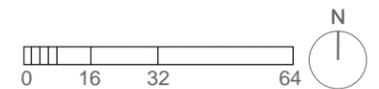
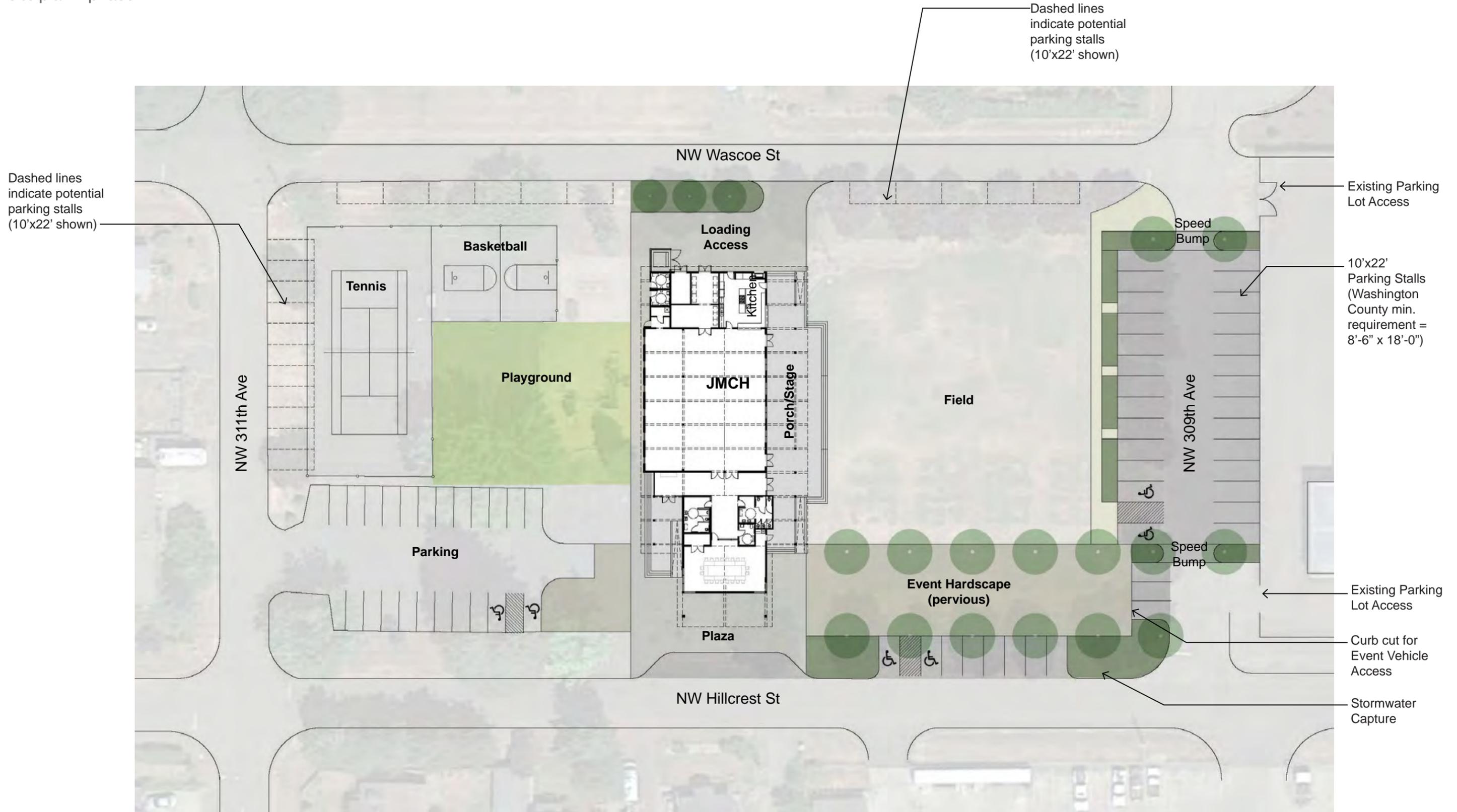


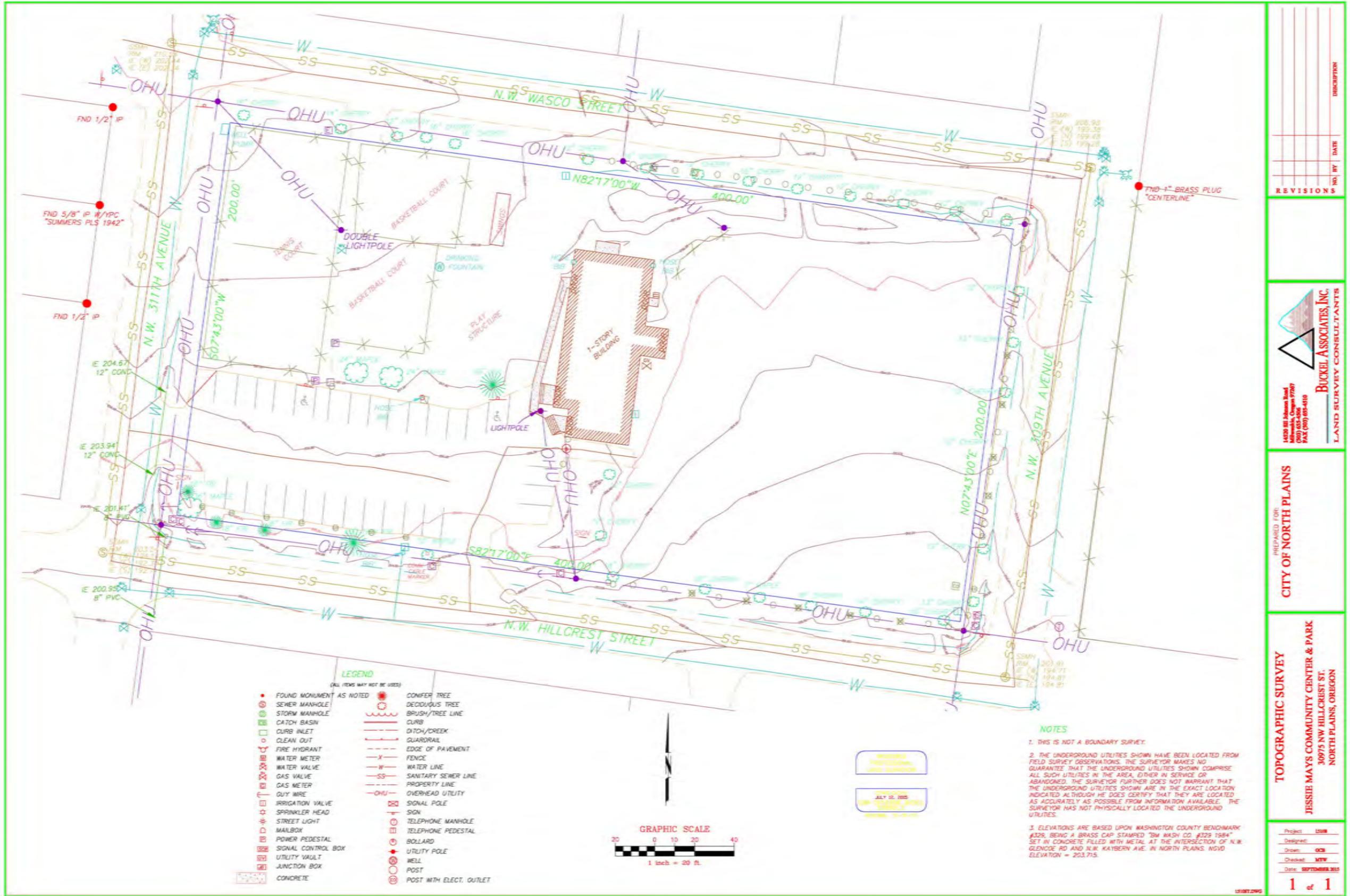


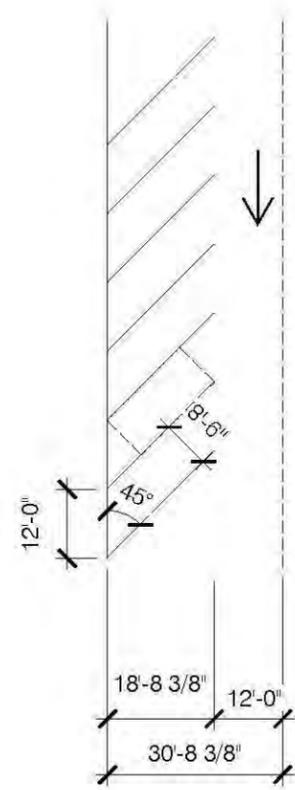




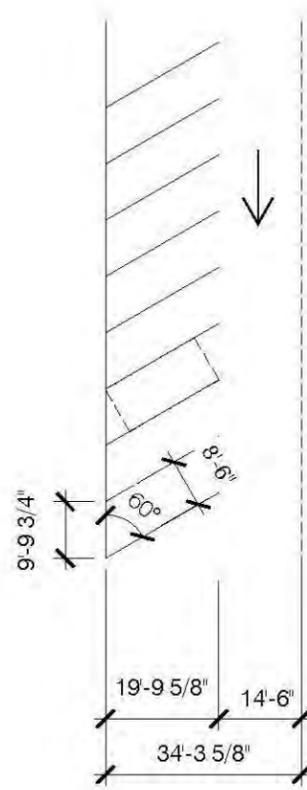
site plan - phase 1



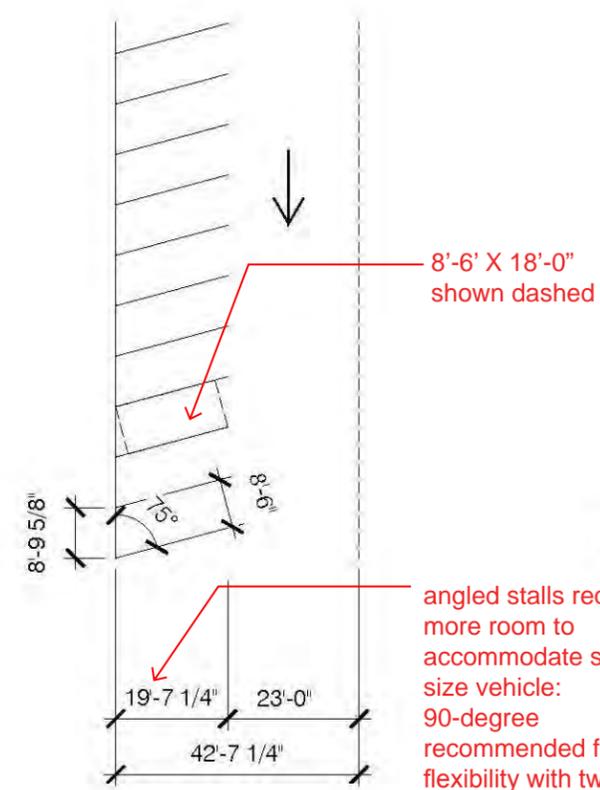




45-DEGREE STALLS



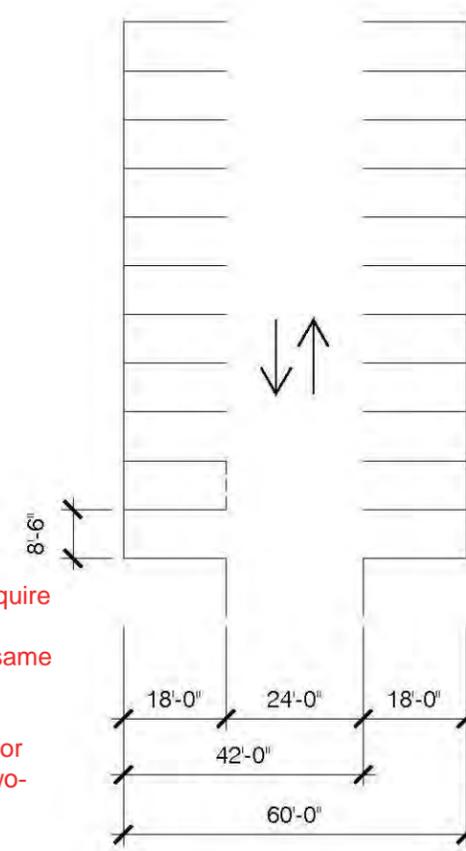
60-DEGREE STALLS



75-DEGREE STALLS

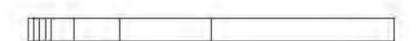
8'-6" X 18'-0"  
shown dashed

angled stalls require  
more room to  
accommodate same  
size vehicle:  
90-degree  
recommended for  
flexibility with two-  
way traffic

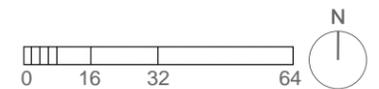
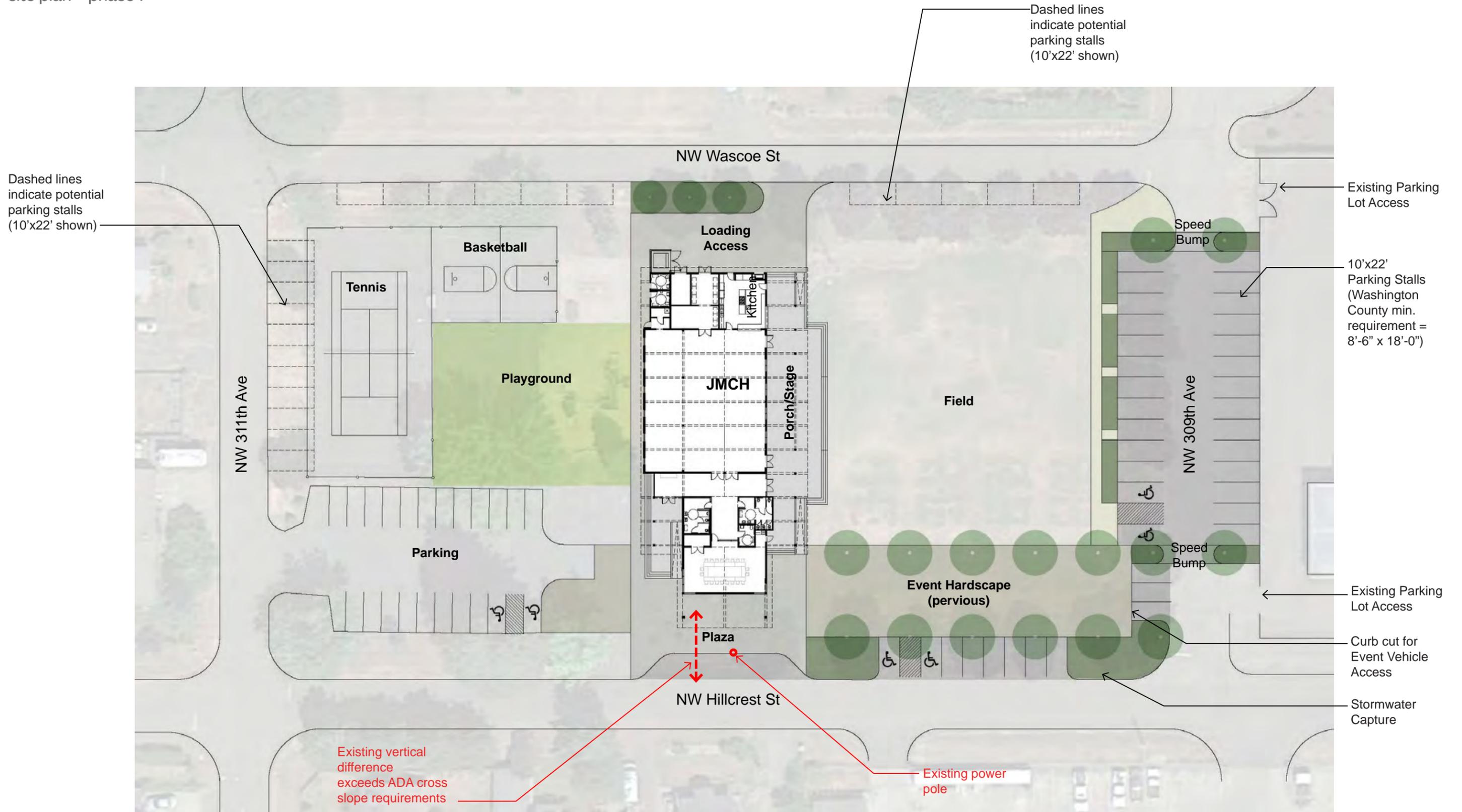


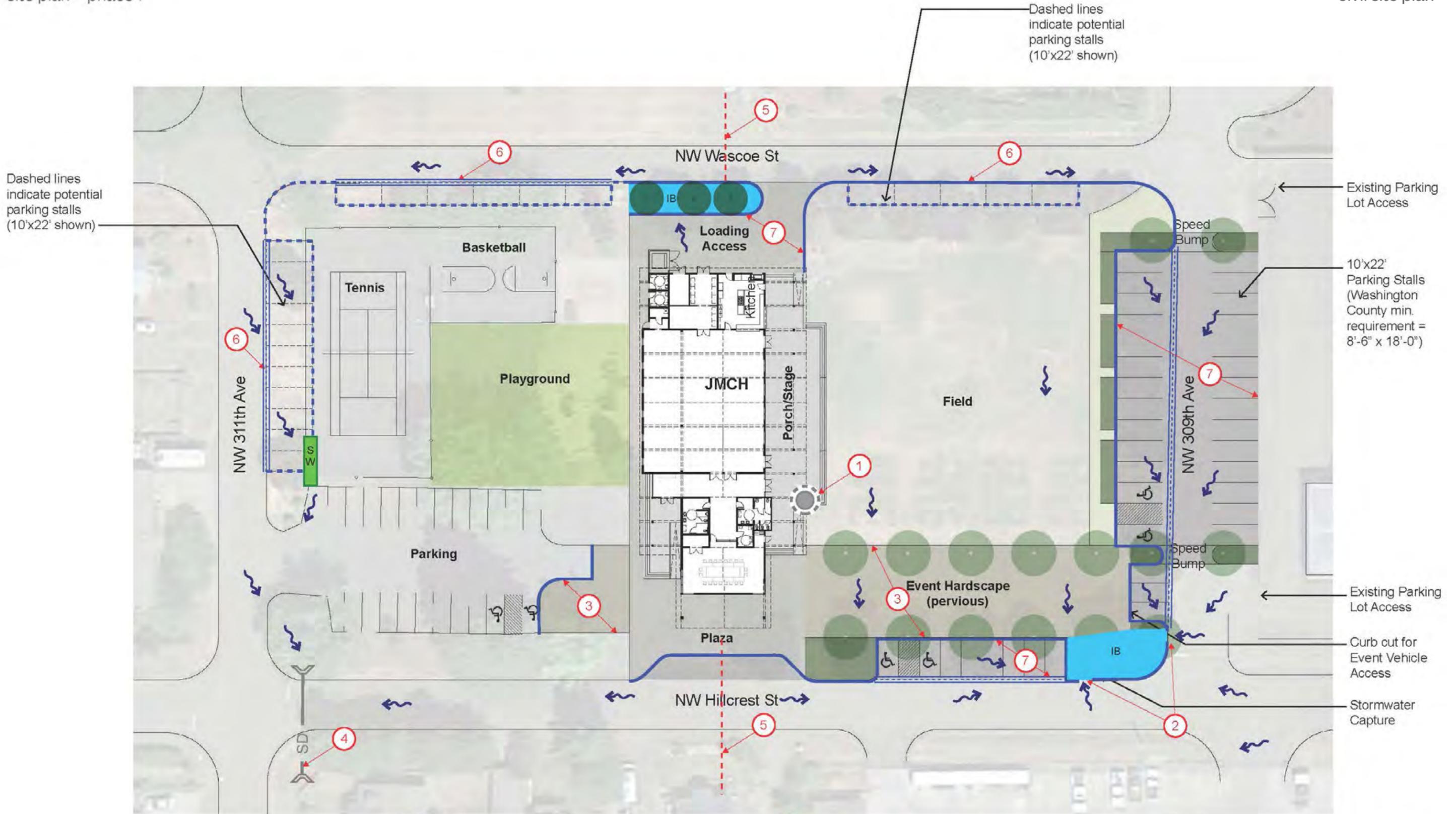
90-DEGREE STALLS

washington county parking standards



site plan - phase 1





Dashed lines indicate potential parking stalls (10'x22' shown)

Dashed lines indicate potential parking stalls (10'x22' shown)

Existing Parking Lot Access

10'x22' Parking Stalls (Washington County min. requirement = 8'-6" x 18'-0")

Existing Parking Lot Access

Curb cut for Event Vehicle Access

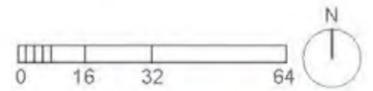
Stormwater Capture

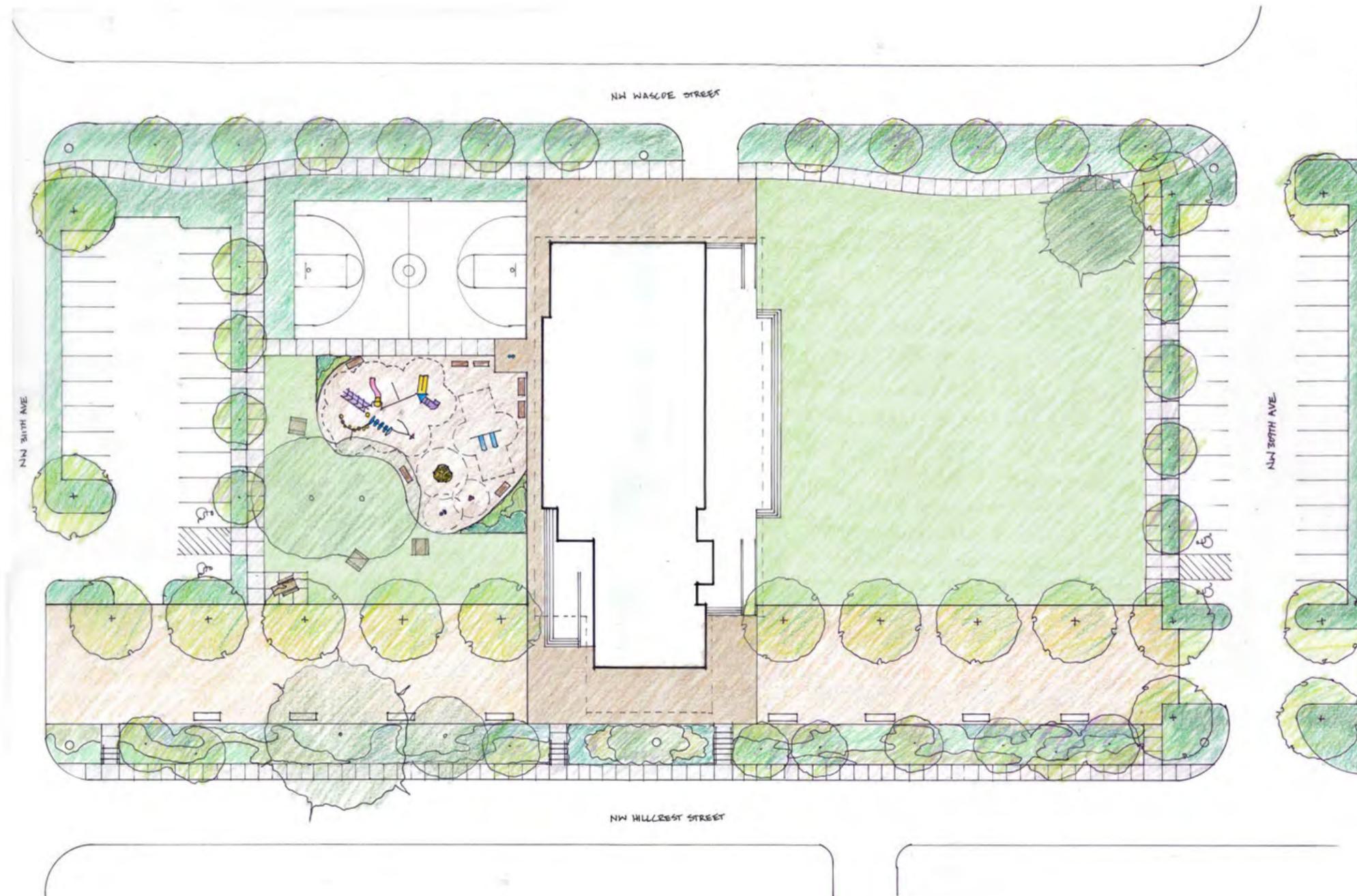
LEGEND

	INFILTRATION BASIN		VALLEY GUTTER
	SWALE WITH OVERFLOW TO STREET CONVEYANCE		NEW CURB OR CURB AND GUTTER
	DRAINAGE FLOW ARROW		POTENTIAL NEW CURB OR CURB AND GUTTER

(X) CONSTRUCTION KEY NOTES

- |                               |  |
|-------------------------------|--|
| 1 EX. DRYWELL TO REMAIN       | 5 ASSUMED HIGH POINT                               |
| 2 CURB CUT                    | 6 VALLEY GUTTER NEEDED IF PARKING SPACES INSTALLED |
| 3 HARDSCAPING - SEE LANDSCAPE | 7 NEW ASPHALT PAVING                               |
| 4 EXISTING STORM PIPE         |  |





New Trees



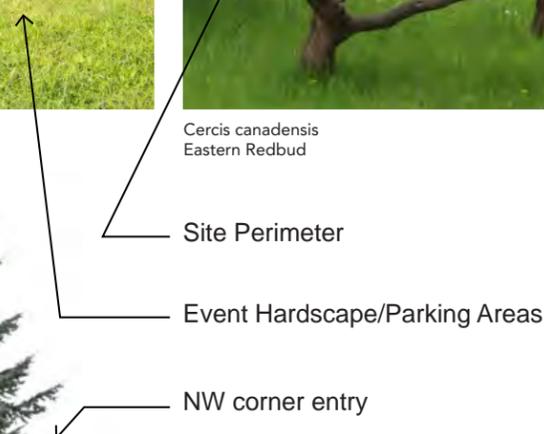
Zelkova serrata 'Schmidtlow'  
Wireless Zelkova



Cercis canadensis  
Eastern Redbud



Pseudotsuga menziesii  
Douglas Fir



General Concepts:

- Unify site
- Multi-season interest
- Naturalistic/rustic
- Low-maintenance

Perimeter/Accents



Podocarpus lawrenceii 'Purple King'  
Purple King Mountain Plum Pine



Microbiota decussata 'Condrew'  
Drew's Blue Syberian Carpet Cypress



Fothergilla gardenii 'Blue Mist'  
Blue Mist Dwarf Fothergilla



Miscanthus sinensis 'Little Kitten'  
Little Kitten Dwarf Maidenhair Grass



Mahonia eurybracteata 'Soft Caress'  
Soft Caress Mahonia



Deschampsia caespitosa 'Northern Lights'  
Northern Lights Tufted Hair Grass



Physocarpus opulifolius 'Donna May'  
Little Devil Ninebark



Buddleia x 'Podarus'  
Tutti Frutti Petite Butterfly Bush



Panicum virgatum 'Heavy Metal'  
Heavy Metal Blue Switch Grass



Veronica longifolia 'Evaline'  
Evaline Speedwell



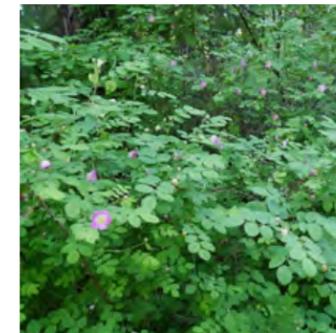
Penstemon 'Prairie Dusk'  
Prairie Dusk Penstemon



Salix purpurea 'Nana'  
Dwarf Blue Arctic Willow



Polystichum munitum  
Western Sword Fern



Rosa gymnocarpa  
Bald Hip Rose



Cornus alba 'Bailhalo'  
Ivory Halo Dogwood



Ribes sanguineum 'King Edward'  
King Edward Flowering Currant



Camassia quamash  
Common Camas



Juncus patens  
Spreading Rush



Mahonia repens  
Creeping Mahonia



Arctostaphylos uva-ursi  
Kinnikinnick

Bollards at pathways



- |   |   |   |   |   |  |
|---|---|---|---|---|--|
|  |  |  |  |  |  |
| - 01.<br>Black<br>RAL 9011  | - 02.<br>Dark Grey<br>RAL 7043  | - 03.<br>White<br>RAL 9003  | - 04.<br>Metalic Silver<br>RAL 9006   | - 05.<br>Matt Silver<br>RAL 9006  | - 06.<br>Bronze<br>RAL 6014  |

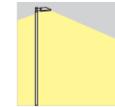
Pole-mounted fixtures at parking areas



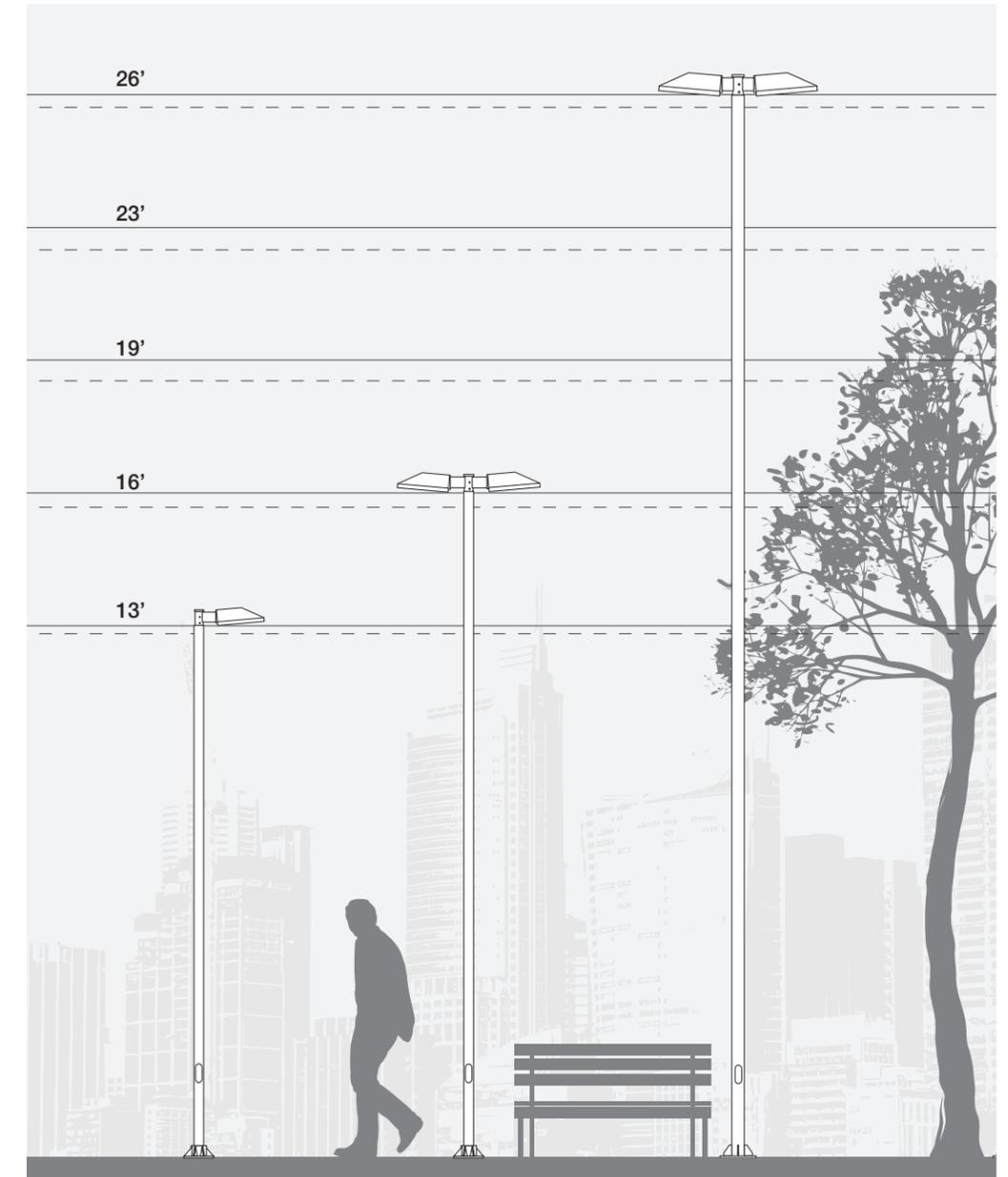
UMN-91201-SC60



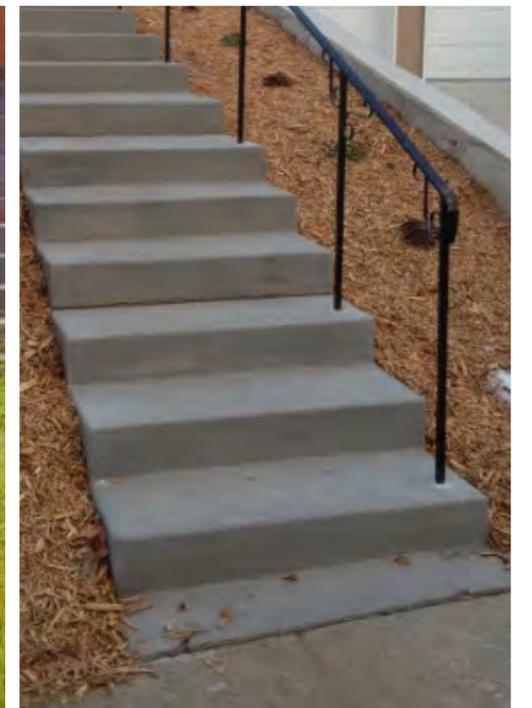
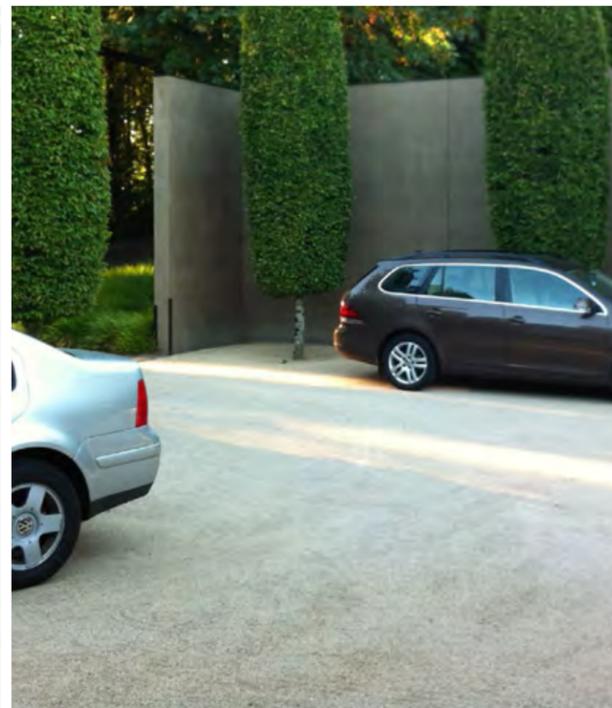
UMN-91201-SC76



UMN-91211-SC76

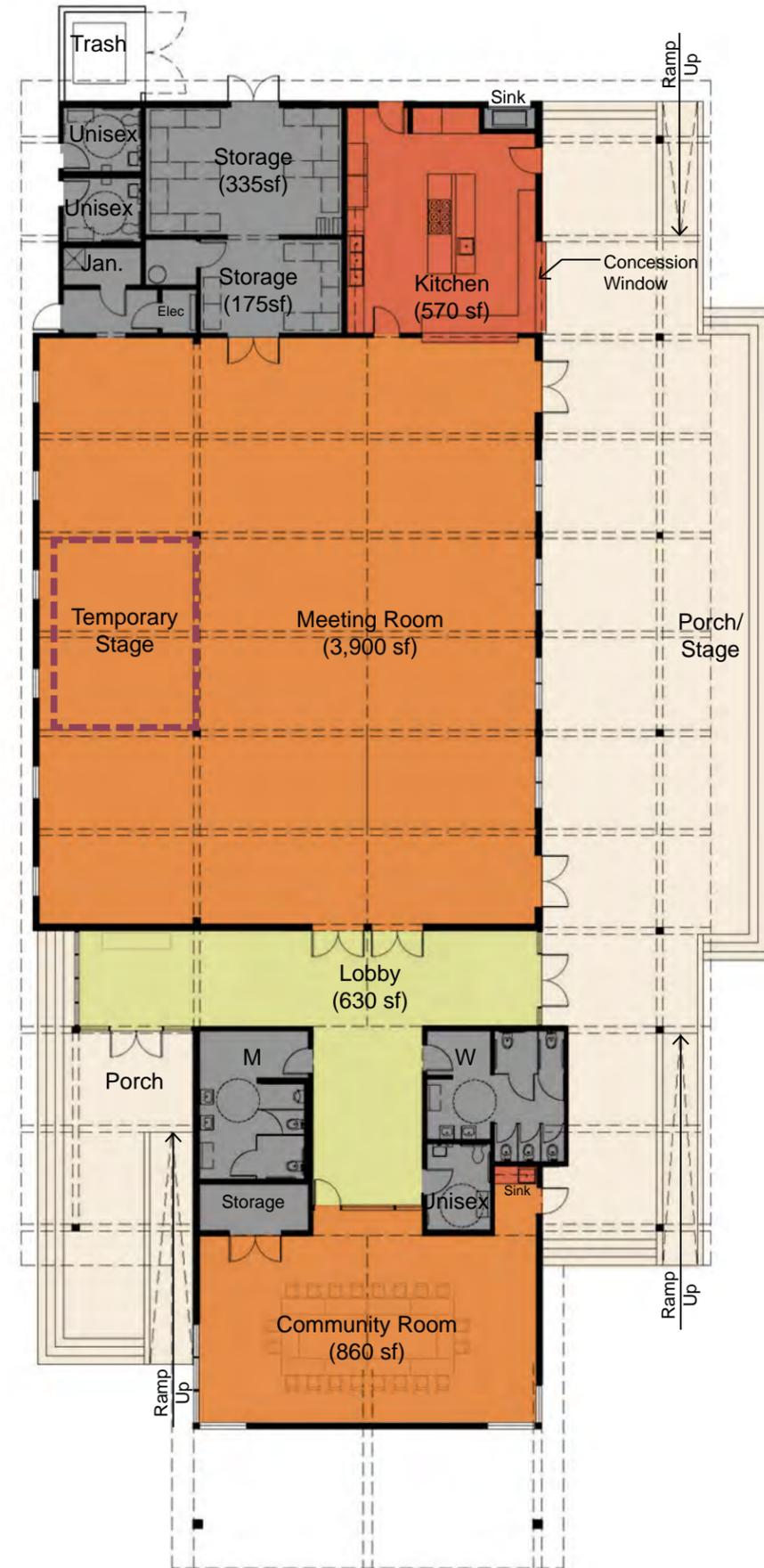
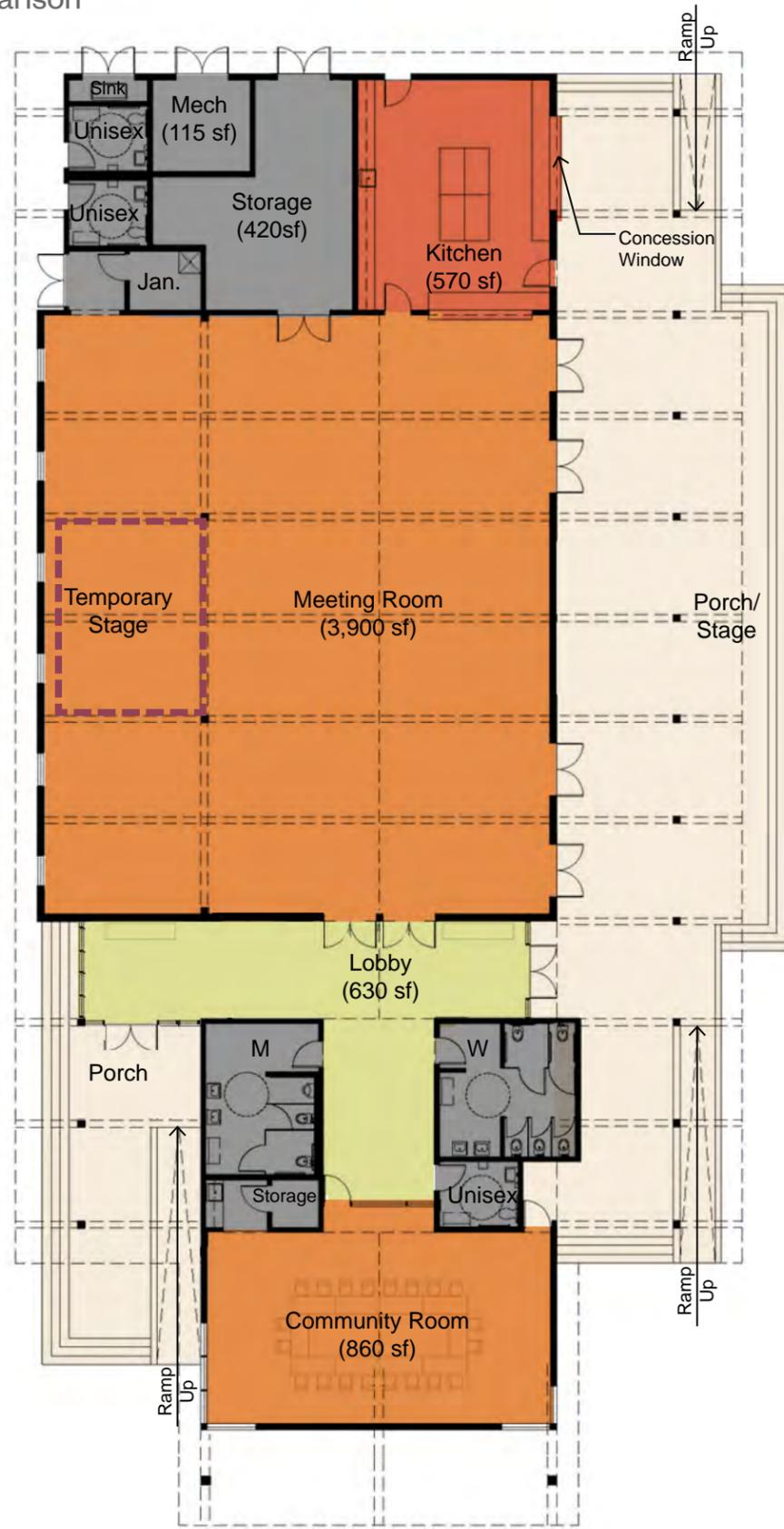


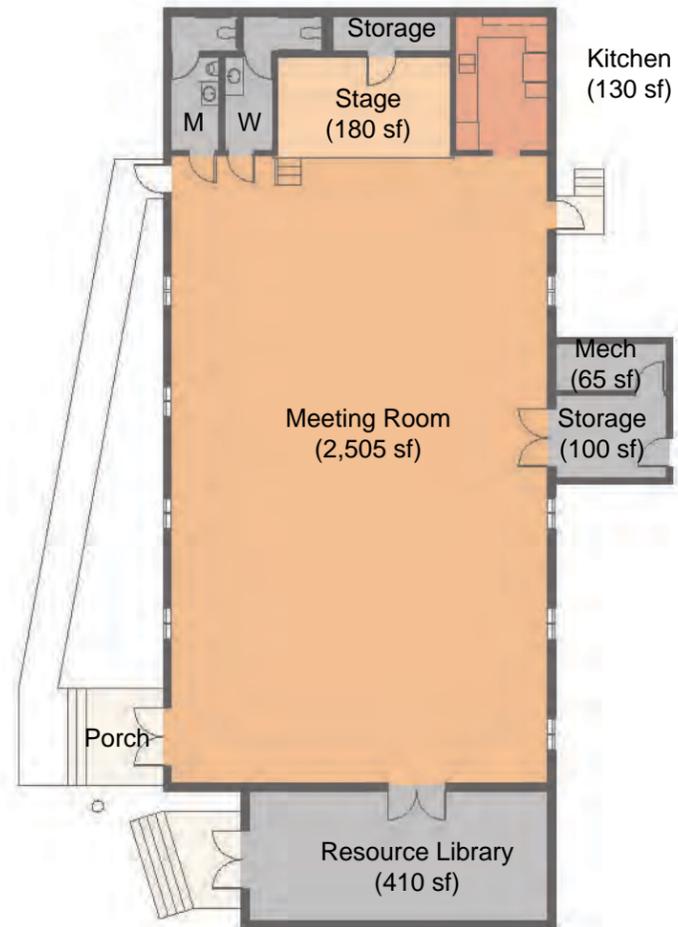




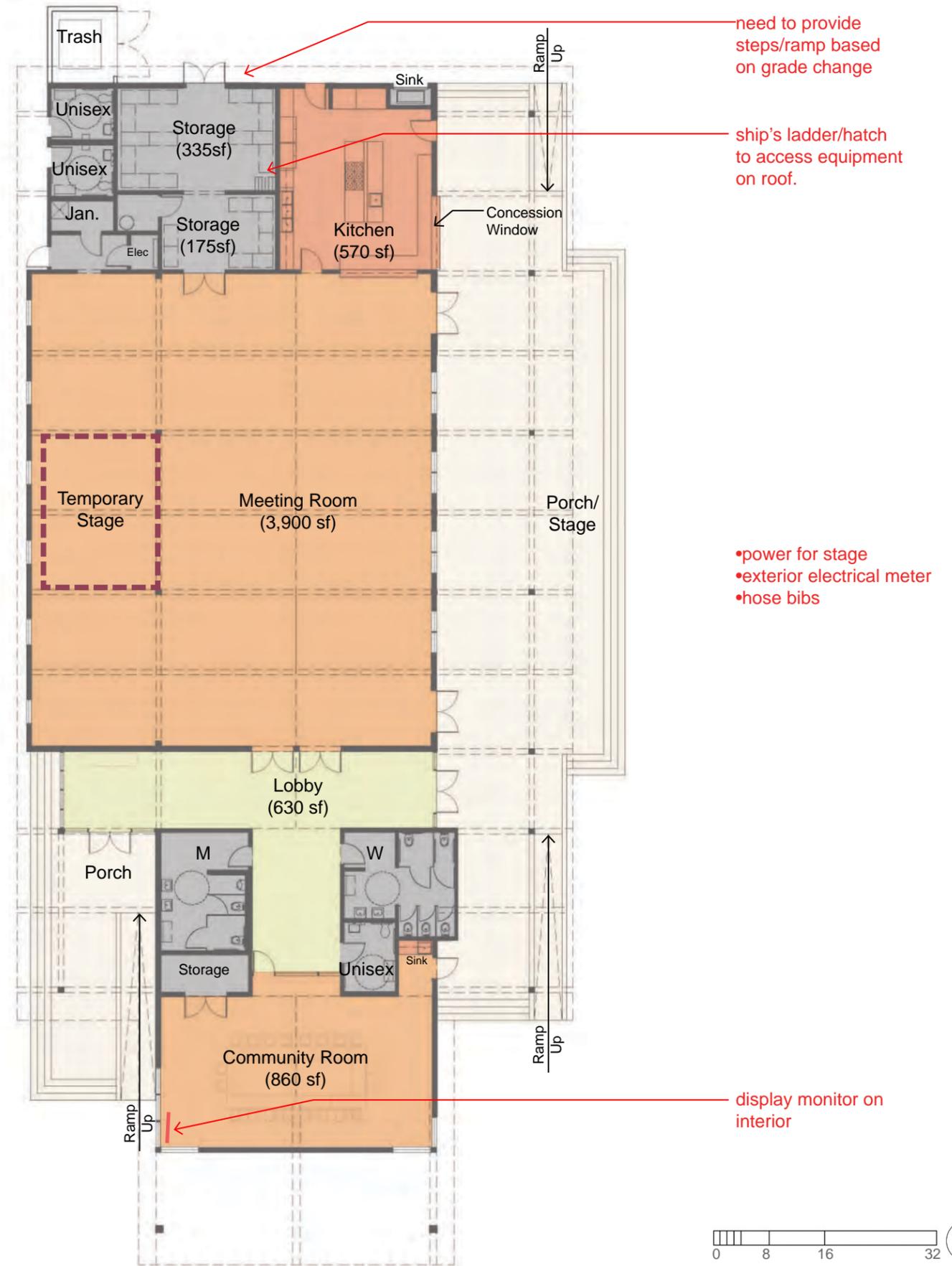
building plan comparison

Previous

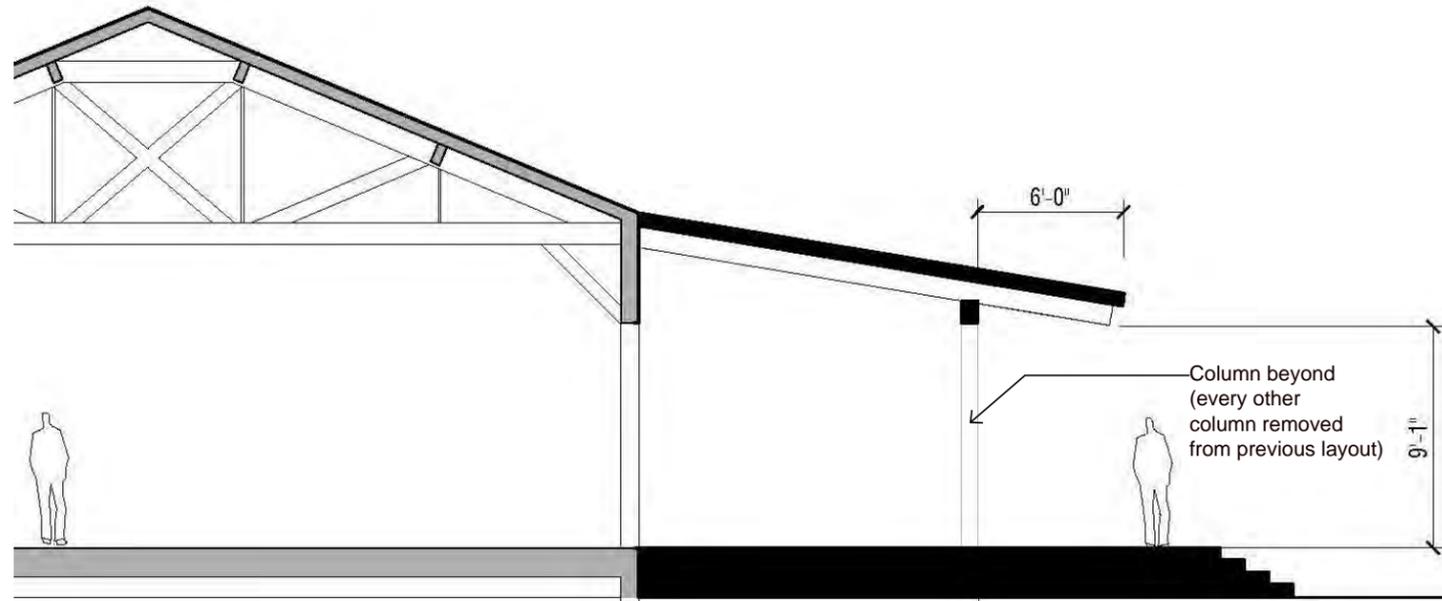




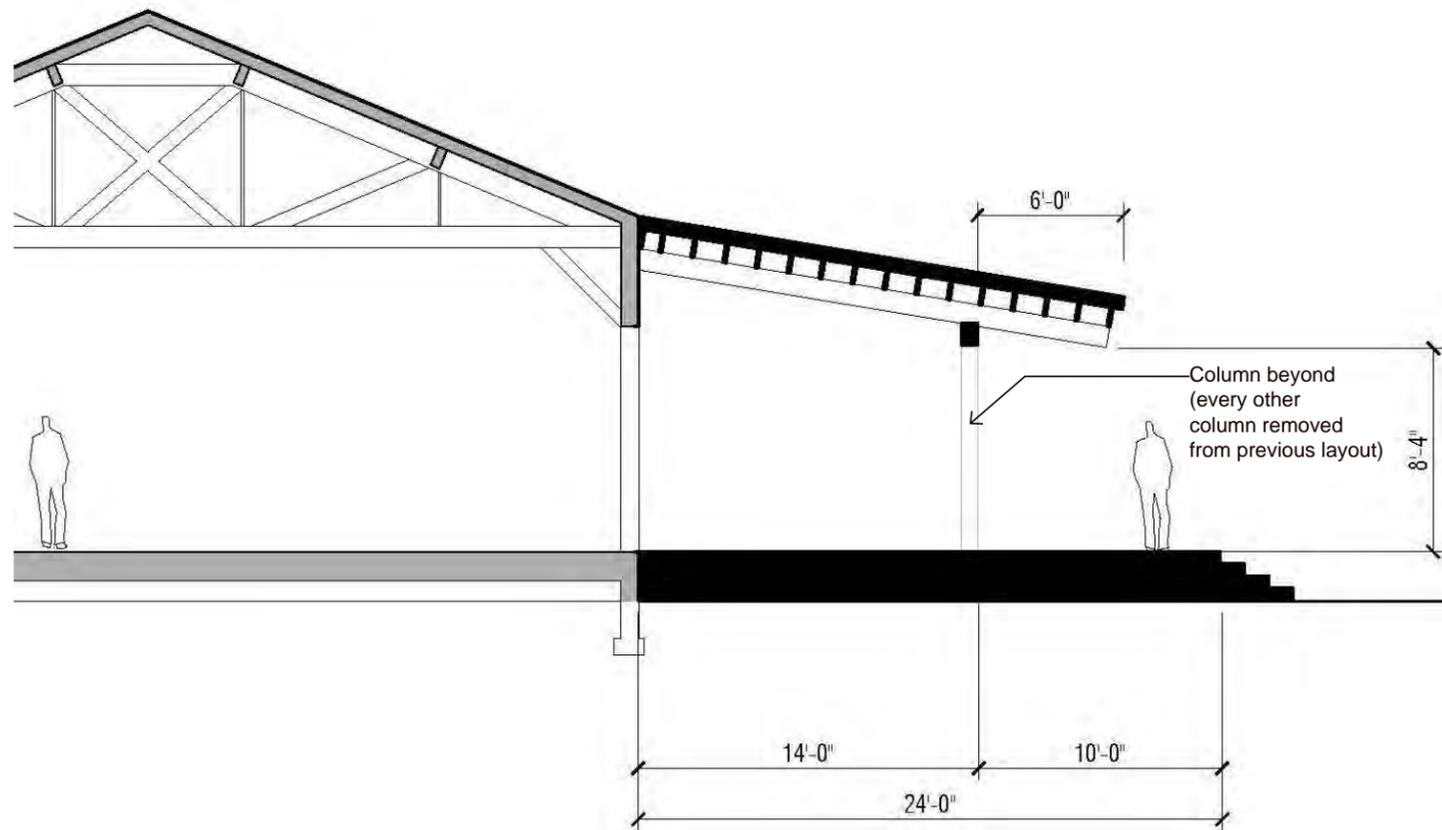
Existing Building



stage



study A (2 layers of framing)



study B (3 layers of framing)



stage



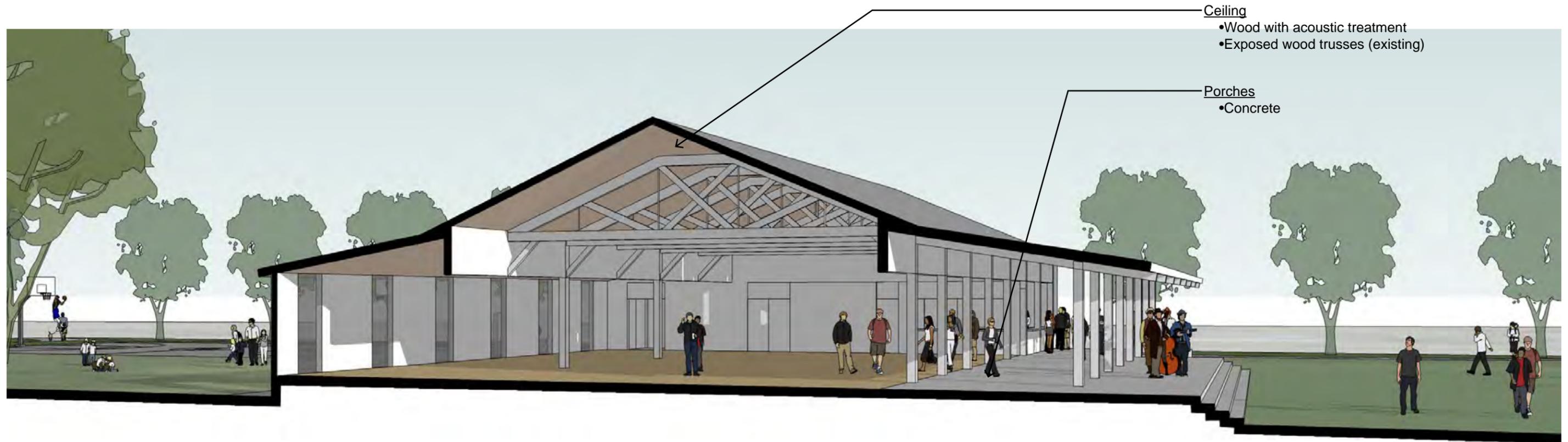
study A (2 layers of framing)

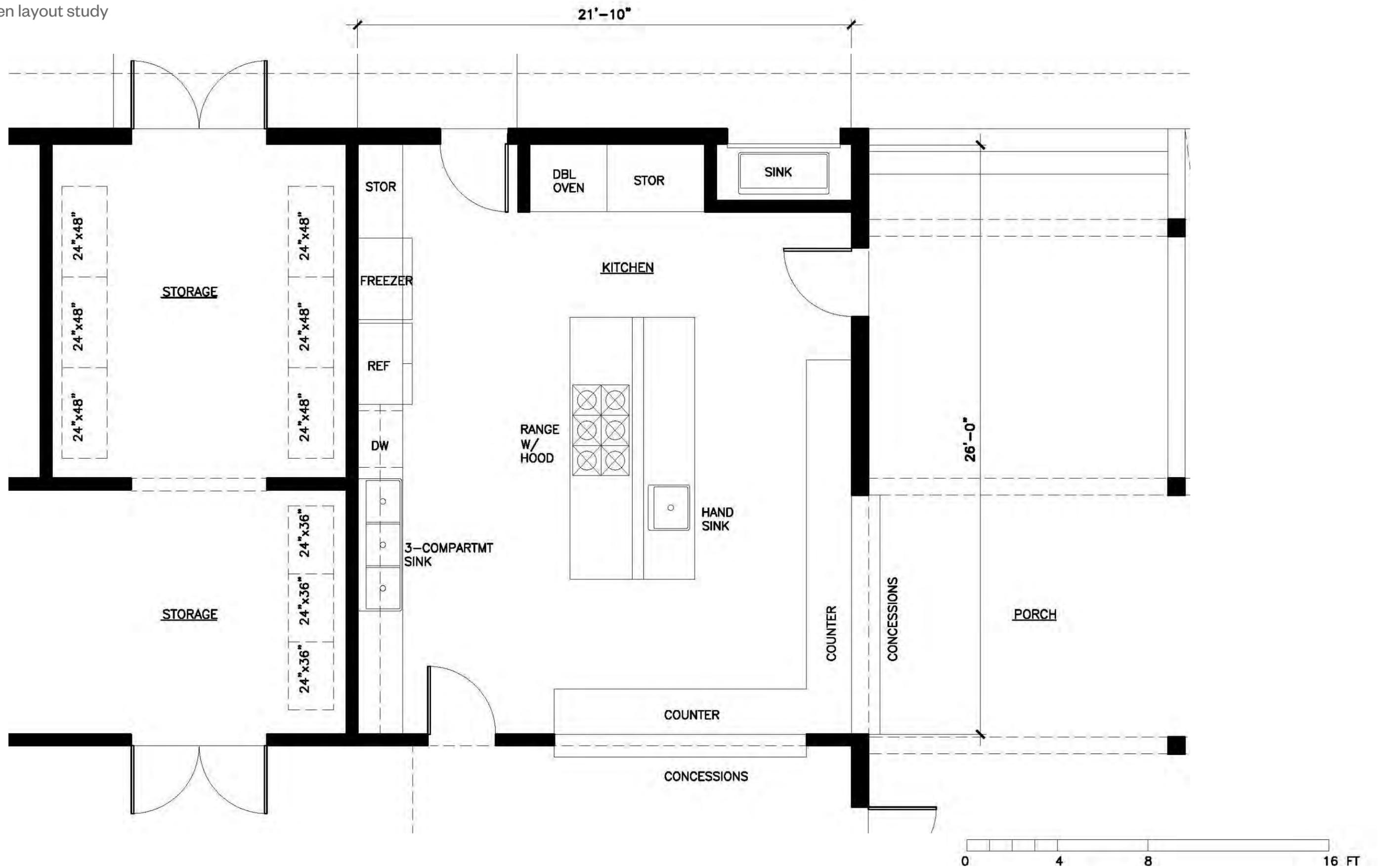


study B (3 layers of framing)

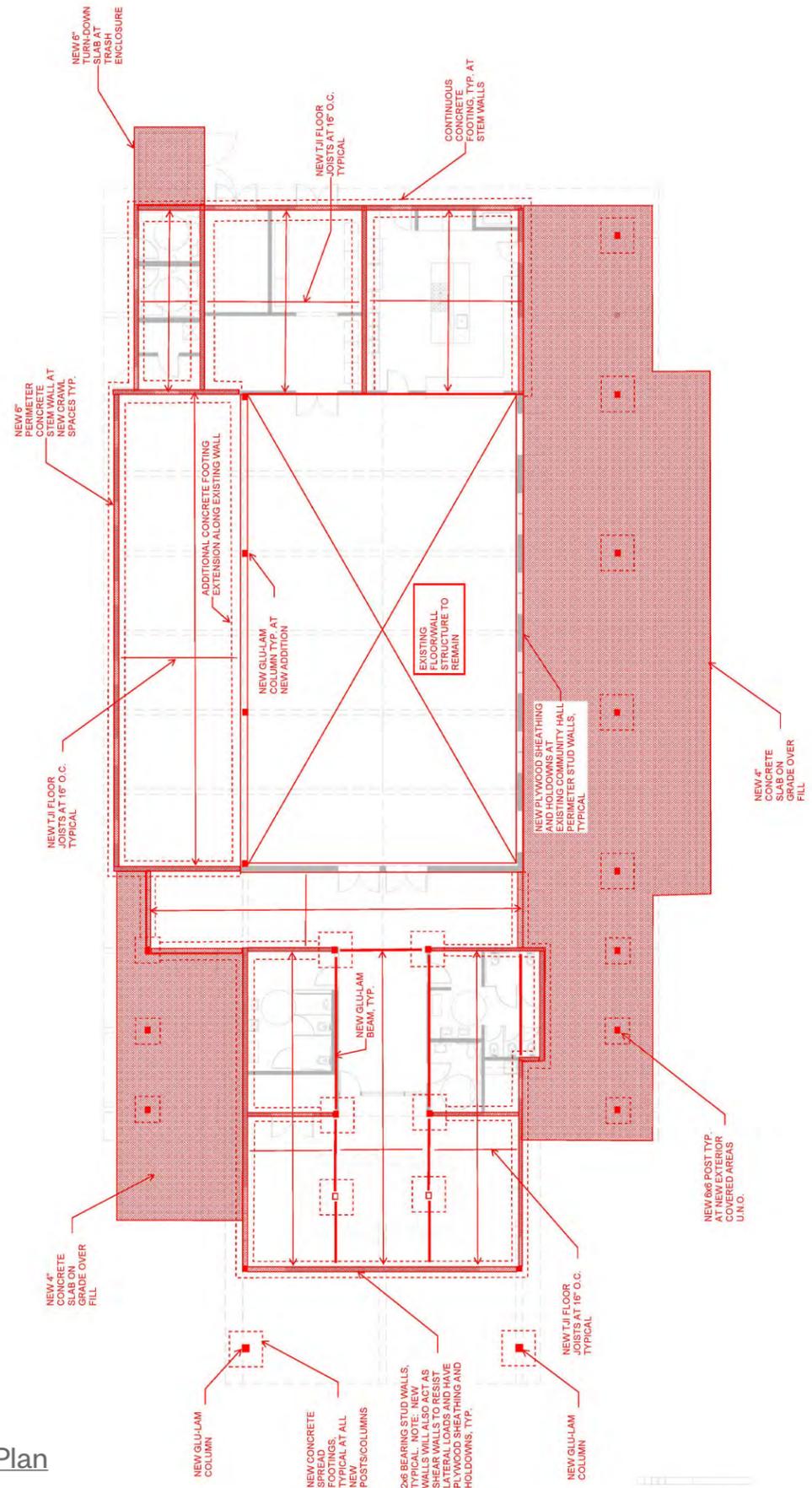


materials

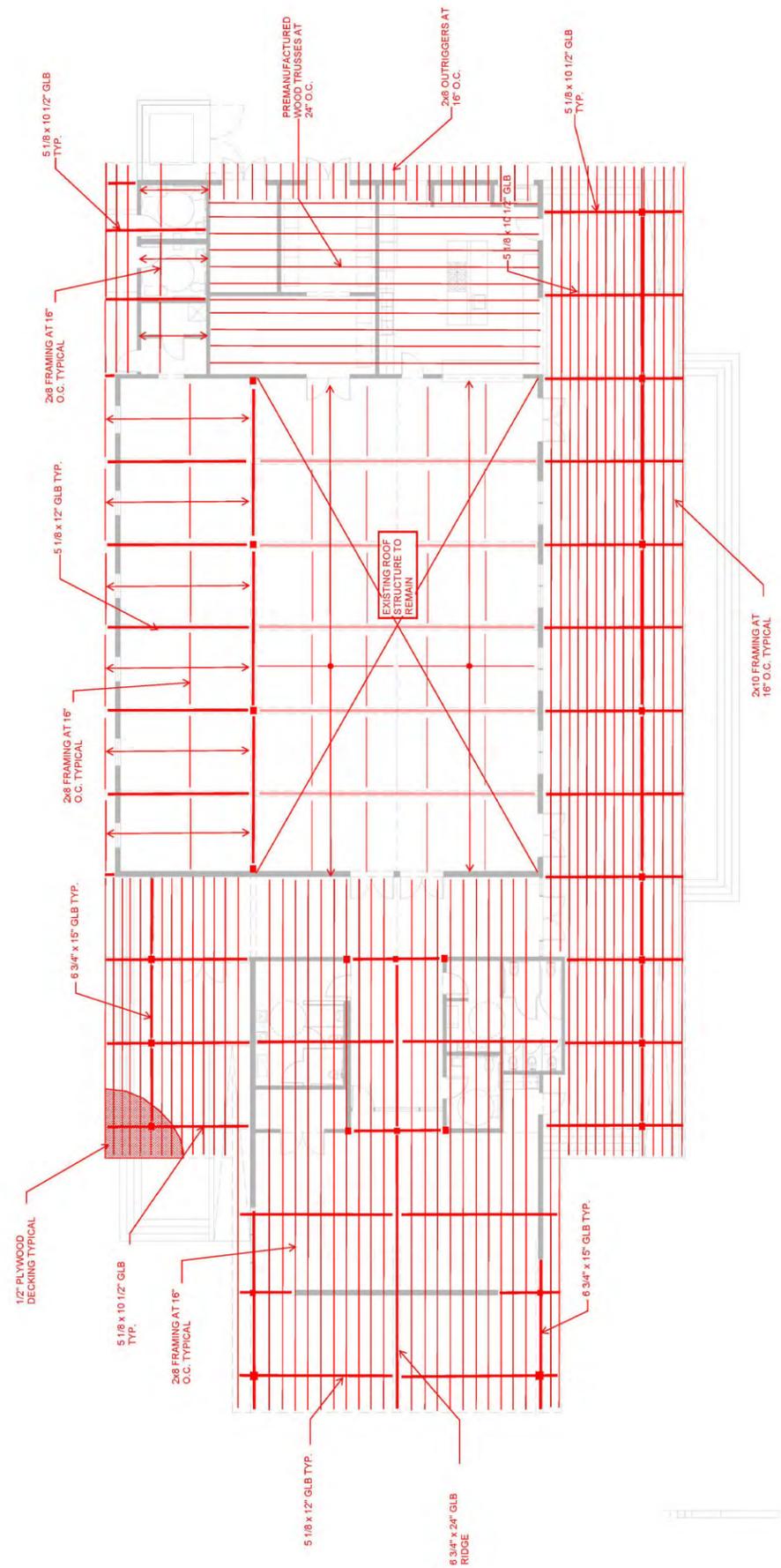


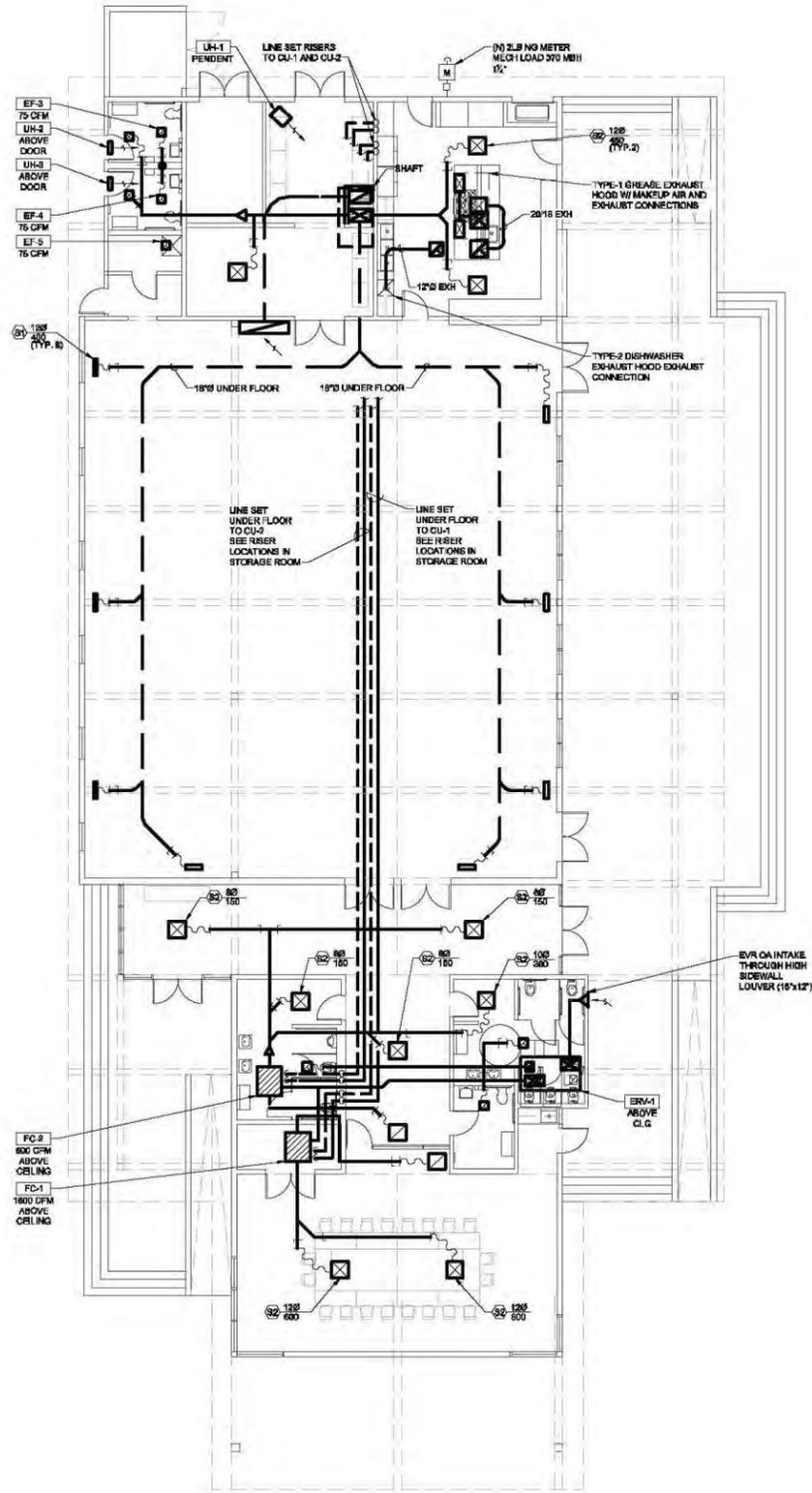


Foundation Plan

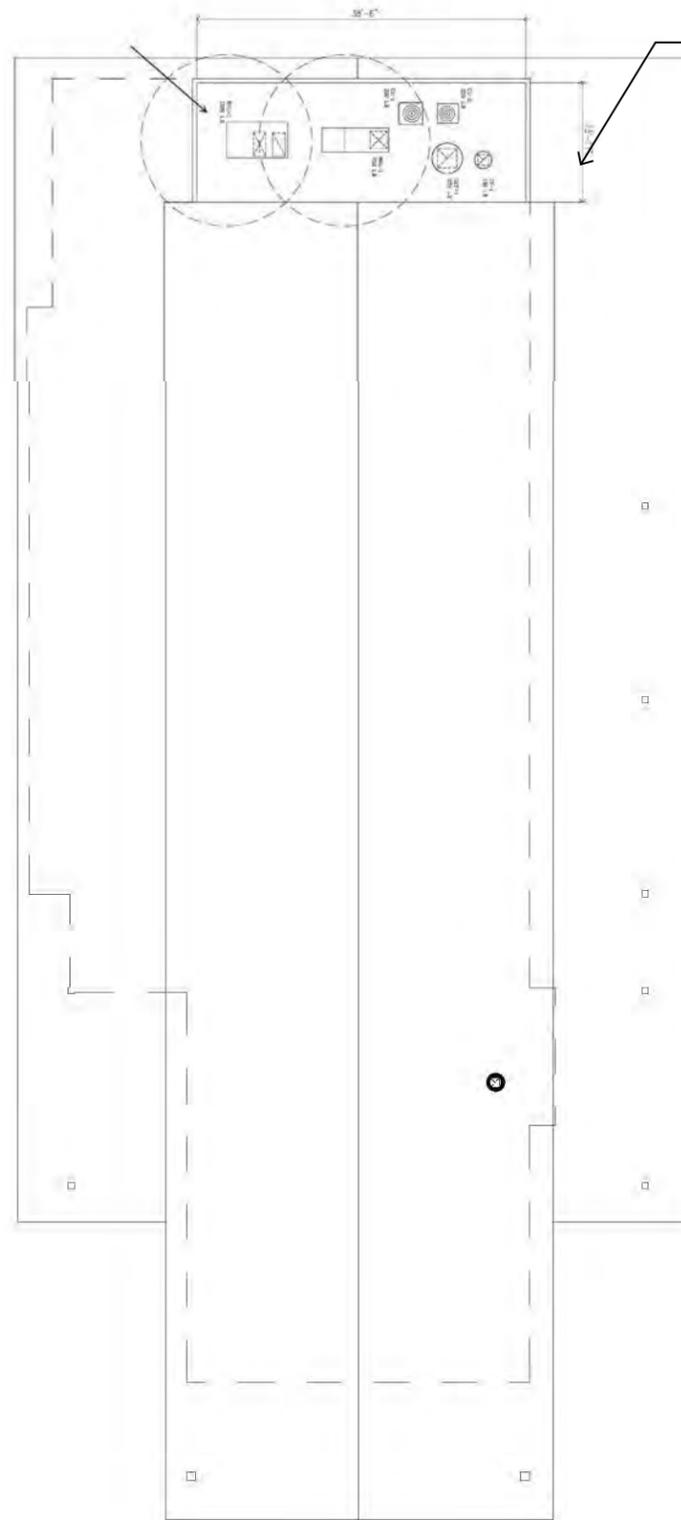


Framing Plan





1st Floor Plan



Roof Plan

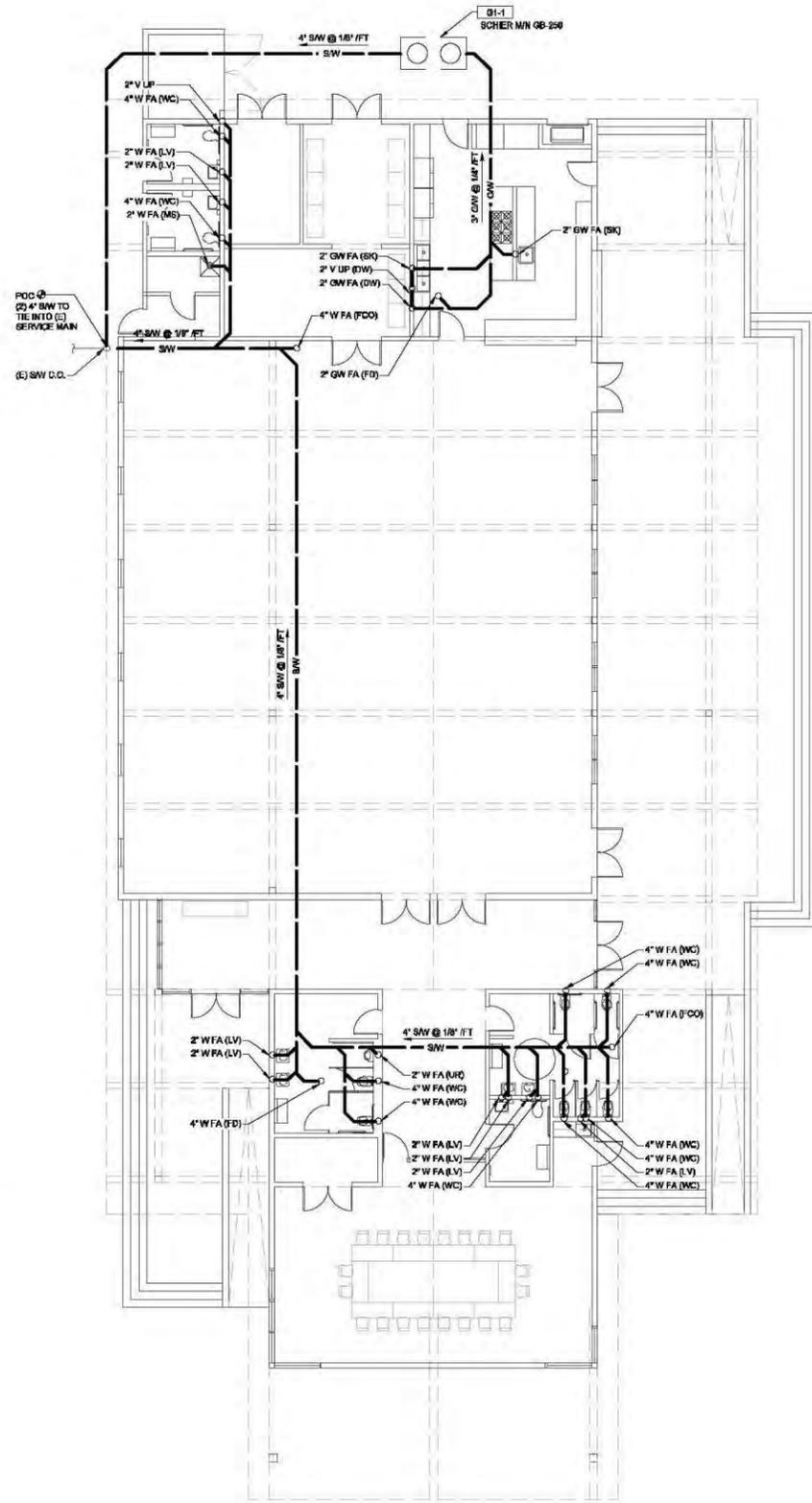
Rooftop mechanical equipment

- Most effective way to balance required performance and cost
- Location ideal for heat rejection, proximity to loads below, and security from public tampering

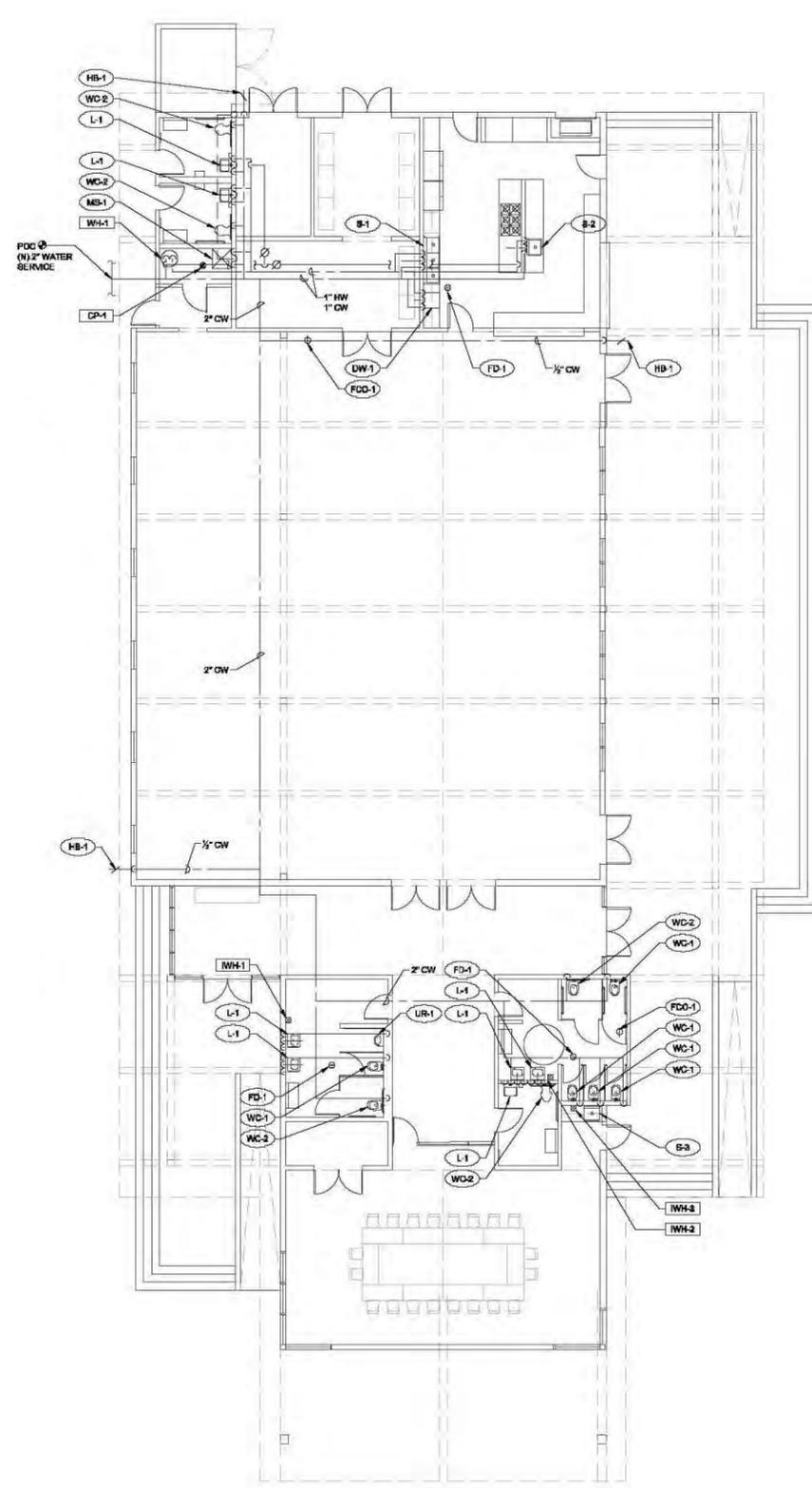
HVAC Systems Summary			
Space Type	Heating and Cooling	Outdoor Air	Exhaust/Return/Relief
<b>Meeting Room</b>	RTU-1: Nominal 10-Ton Packaged Rooftop Air Conditioning Unit (Gas Heat, Electric DX Cooling) with ducted distribution to floor supply grilles routed below floor	Outdoor air provided from RTU-1 via integrated fully modulating economizer	Sidewall return air grilles provided at Meeting Room w/ ducted connection to rooftop unit above
<b>Community Room</b>	FC-1/CU-1: Nominal 5-Ton Split System Heat Pump w/ supplemental electric heat and ducted distribution to ceiling supply grilles	HRV-1: Packaged heat recovery ventilator to provide tempered outdoor air ducted directly to FC-1	Return air via ceiling intake grilles w/ ducted connection to FC-1
<b>Kitchen</b>	Primary space conditioning provided from RTU-1. Additional makeup air to offset hood exhaust provided from MAU-1: roof mounted heating only makeup air unit	Outdoor air provided from RTU-1 via integrated fully modulating economizer	GEF-1: Roof mounted grease exhaust fan to provide exhaust for Type-1 kitchen hood. EF-1: Roof mounted general exhaust fan to provide exhaust for Type-2 dishwasher exhaust hood
<b>Lobby Corridor</b>	Lobby conditioning provided from Split System FC-1/CU-1	HRV-1: Packaged heat recovery ventilator to provide tempered outdoor air ducted directly to FC-1	Return air via ceiling intake grilles w/ ducted connection to FC-1 Transfer air from Lobby to provide makeup air for adjacent Toilet Rooms
<b>North Toilet Rooms</b>	Primary Toilet Room conditioning provided from Split System FC-1/CU-1 Transfer air from Lobby to provide additional makeup air for Toilet Rooms exhaust	HRV-1: Packaged heat recovery ventilator to provide tempered outdoor air ducted directly to FC-1	Exhaust air via ceiling intake grilles w/ ducted connection to HRV-1
<b>South Toilet Rooms</b>	Space heating by wall mount electric unit heaters UH-2,3	Transfer air from adjacent conditioned space by ceiling grilles	Exhaust by common inline exhaust fan EF-3 w/ sidewall discharge
<b>Storage Rooms</b>	Ceiling Hung Electric Unit Heater (No Cooling)	NA	NA



plumbing systems



Underground Plan



1st Floor Plan

Major systems and components include:

- Domestic cold water and hot water service to all fixtures in building
- Domestic hot water equipment and system
- Sanitary sewer service to all fixtures in building
- Storm drainage service to all exposed flat roof areas
- Receiver boots to transition from exposed downspouts to site storm drain system
- Plumbing Fixtures
- Grease waste piping and exterior in-ground grease interceptor to serve all Kitchen fixtures

Plumbing System Components (Table 4.1)		
Item	Location	Criteria
Domestic Water Heater, Gas-Fired Tank <b>WH-1</b>	Ground Floor North Janitors Closet	AO Smith MXi or similar tank type condensing natural gas fired water heater, 199 MBH input, 100 gallon storage, with 336 gph recovery @ 70F rise.
Domestic HW Expansion Tank <b>ET-1</b>	Ground Floor North Janitors Closet	Amtrol ST-12C or similar ASME rated thermal expansion tank, 6.4 gallon tank volume, for use with domestic hot water system.
Domestic HW Circulation Pump <b>RCP-1</b>	Ground Floor North Janitors Closet	Grundfos or similar domestic hot water recirculation pump, size for 8 gpm @ 30' head.
Instantaneous Electric Water Heater <b>IWH-1,2,3</b>	South Toilet Rooms and Community Room Sink (Typ. 3)	EEmax Model SP8208, 208V/1Ph, 8.3 KW To deliver 1.0 GPM at 57F Temperature Rise Suitable for exposed wall mounting and multiple fixture connection
Grease Waste Interceptor <b>GI-1</b>	Below Grade North of Structure	Schier Model GB-250 Polyethylene Grease Interceptor 100 GPM flow capacity, 275 Gallon holding capacity, maximum grease capacity 1,076 lbs. Polyethylene tank, traffic rated access covers
Domestic Plumbing Fixtures	Distributed	<b>WC-1</b> Standard Height, Floor Mount, Manual Flush Valve Watercloset <b>WC-2</b> ADA Height, Floor Mount, Manual Flush Valve Watercloset <b>L-1</b> ADA, Wall-Hung Lavatory w/ Battery Operated. Sensor Faucet <b>MS-1</b> Floor Mount Molded Stone Mop Sink w/ Wall Faucet <b>S-1</b> Counter mounted, ADA, Stainless Steel Sink w/ Manual Faucet <b>S-2</b> Exterior, Wall hung, ADA Stainless Steel Sink w/ Manual Faucet <b>FD-1</b> Interior floor drain w/ Nickle Bronze Strainer and Trap Primer
Kitchen Plumbing Fixtures and Appliances	Kitchen	Kitchen fixtures (sinks, floor sinks, drains) and appliances (dishwasher) to be coordinated with kitchen equipment vendor

