

WELCOME! MURRAY BASIN CSO CONTROL PROJECT

Community Design Charette Public Meeting
October 29, 2011



King County

Department of
Natural Resources and Parks
**Wastewater Treatment
Division**

Today's Program



- Introductions and meeting goals
- CSO overview and project background information
- Dialogue on values
- Required facility components
- Lunch
- Small group discussion and input
- Small group reports to large group
- Closing and next steps

A productive and respectful discussion will include:

- Listening, encouraging others to speak, and allowing others to speak without being interrupted.
- Avoiding side conversations.
- Raising your hand before speaking in full group discussions.
- Respecting each person's opinions; acknowledging the value of different perspectives.
- Participating in a problem-solving atmosphere.
- Since we have limited time & **everyone** should get a chance to speak:
 - ▣ Sharing the air time
 - ▣ Contributing ideas & opinions as clearly & succinctly as you can
- Setting cell phones to silent.

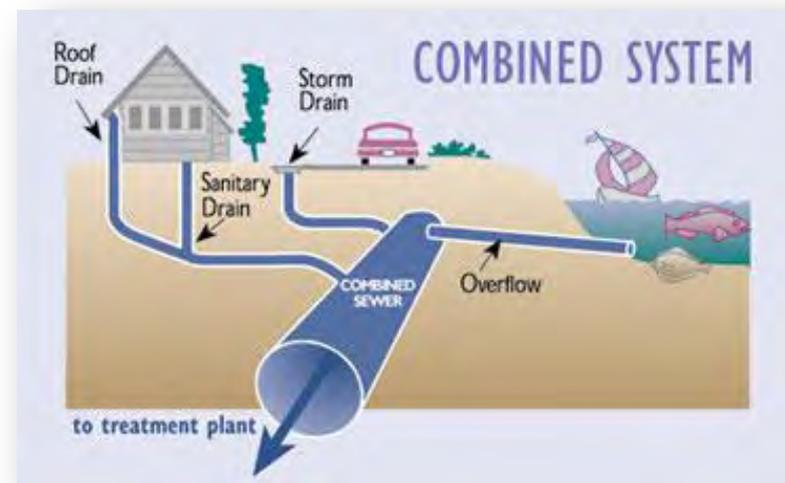
Introductions & Goals for Today



- State your name (and affiliation or interest)
- What do YOU want to get out of this workshop?

What is a CSO?

- Most older cities—including Seattle—built one conveyance system to carry both wastewater and stormwater to treatment plants.
- Combined Sewer Overflows (CSOs) are untreated overflows sent directly to Seattle water bodies during storms when sewers are full.
- CSOs are a safety valve to prevent sewer backups in homes and streets, but they contain harmful chemicals and disease-causing pathogens.



King County CSO Control Program

- CSO control required by state and federal law
 - State standard for untreated overflows=1 per year average
- Highest priority projects along Puget Sound beaches
- For more information on King County's efforts, visit:
<http://www.kingcounty.gov/environment/wastewater/CSO/ProgramReview.aspx>



Basin Description and Requirements

- 992 acres
- Murray CSOs
 - Average 5 events per year
 - Average 5 million gallons per year
- Control requirements
 - 1,000,000 gallons of storage
- Other required elements
 - Odor control
 - Stand-by generator



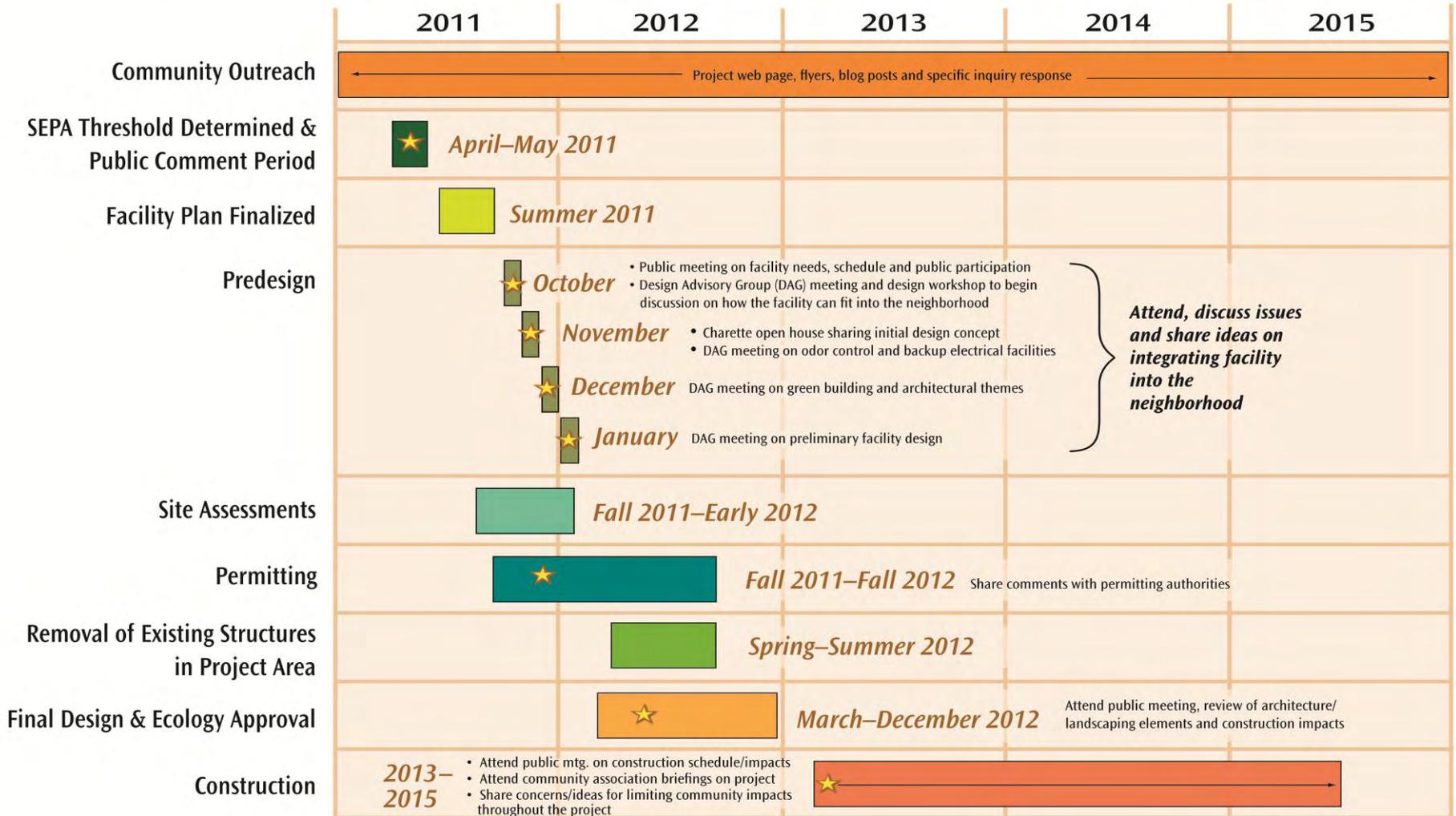
Murray Basin-CSO

General Site Features Layout



MURRAY CSO CONTROL PROJECT

PUBLIC PARTICIPATION TIMELINE



★ = Community Input Opportunity

Next Steps & Upcoming Process

- Open house in November (workshop summary)
 - ▣ Synthesized information from design charrette
 - ▣ Presentation and input on your design ideas
- Keep your feedback coming (via comment forms, website, contacting King County)
- Visit project website:
www.kingcounty.gov/environment/wtd/Construction/Seattle/MurrayCSOStorage.aspx
- Design Advisory Group meetings (open to the public)
- Contact Doug Marsano
doug.marsano@kingcounty.gov
206-684-1235

Dialogue on Values



- What do you want to see embodied in this site when it's completed?

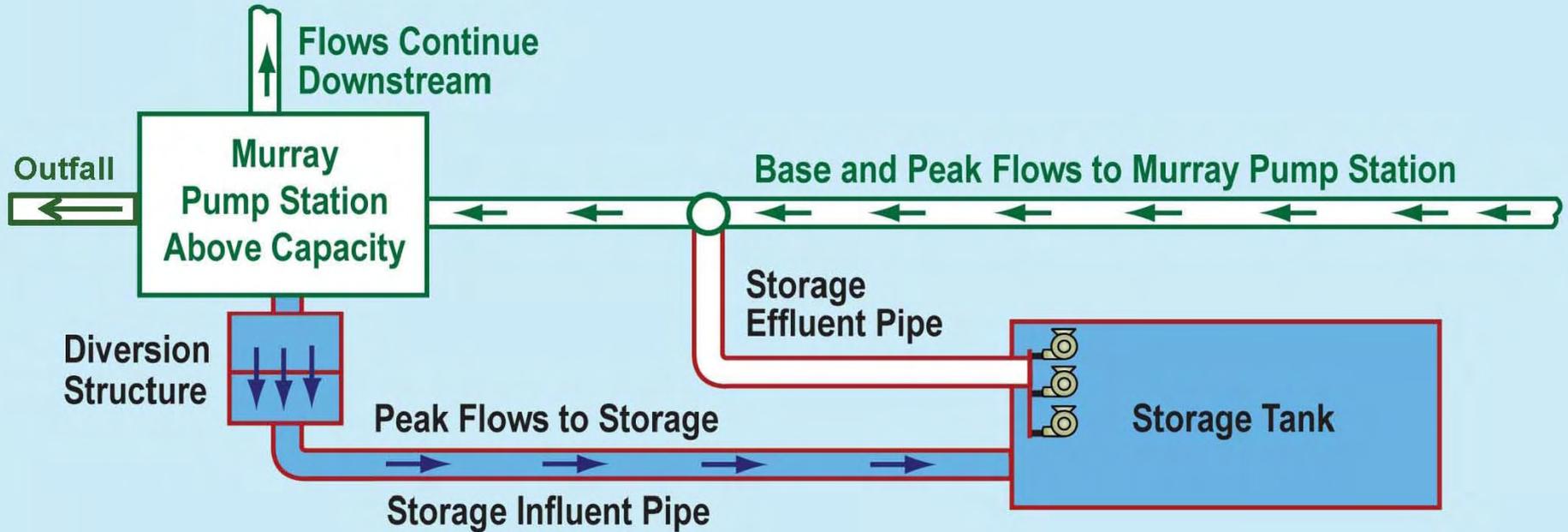
MURRAY CSO CONTROL FACILITY



Murray Ave Pump Station

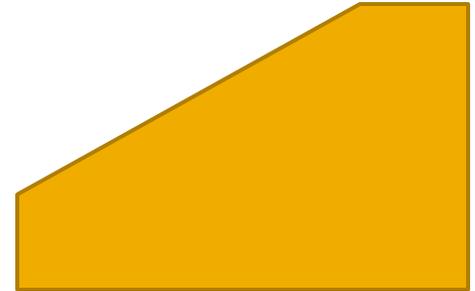
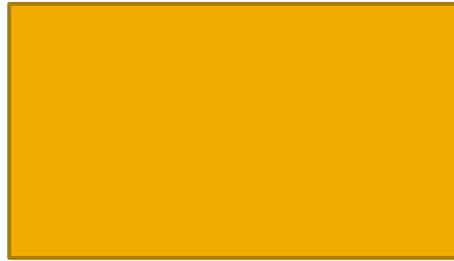
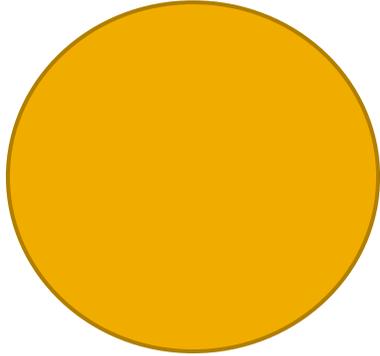


How the Murray CSO Facility Works

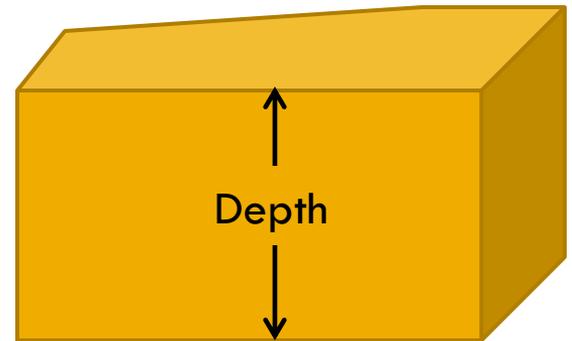
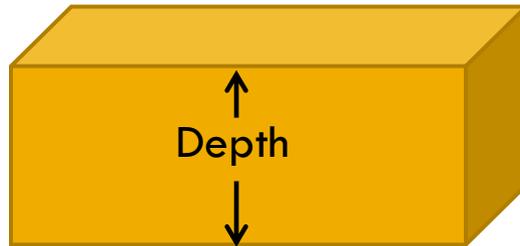
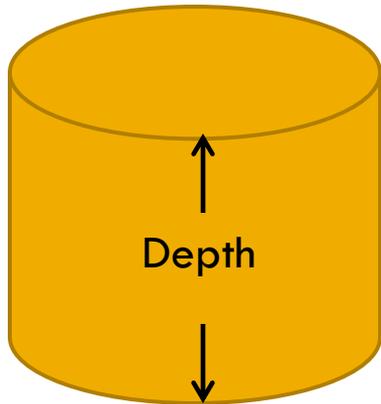


Tanks: Shapes and Sizes

Volume = 1.0 Million Gallons



Plan (Footprint)



Isometric

Facility Components

- Odor Control Equipment
 - ▣ Carbon Scrubber or Equivalent
 - ▣ Fans
 - ▣ Ductwork
 - ▣ Exhaust Stack
- Electrical Panels and Control Panels
- Engine Generator
 - ▣ Sound Reduction
 - ▣ Fuel Tank
 - ▣ Exhaust Stack
- Miscellaneous Mechanical Equipment
 - ▣ Storage Tank Cleaning Equipment
 - ▣ HVAC Equipment

Odor Control Equipment



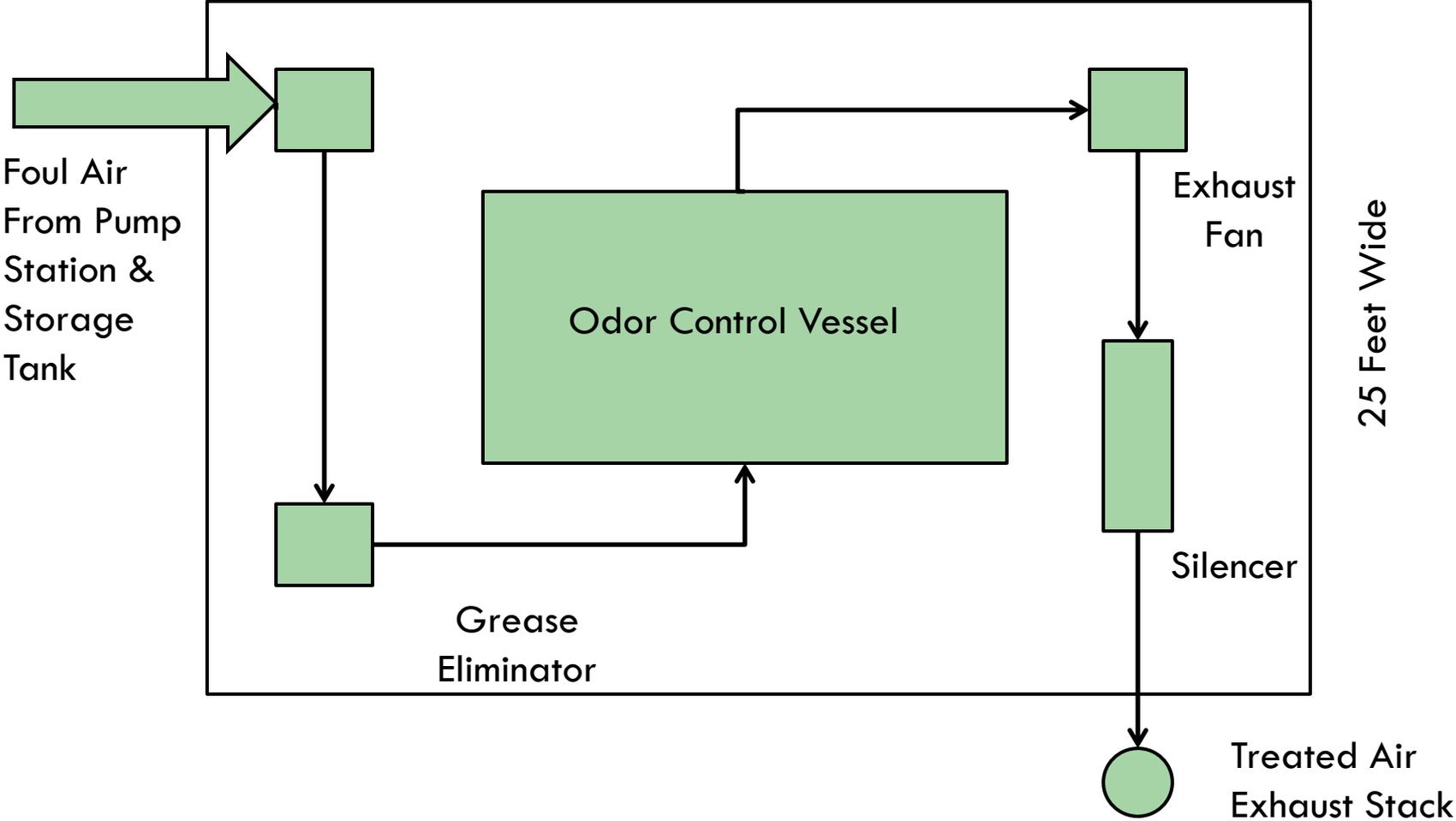
Design Considerations

- Operator and public safety
- Equipment access for maintenance and operation
- Ability to replace carbon media

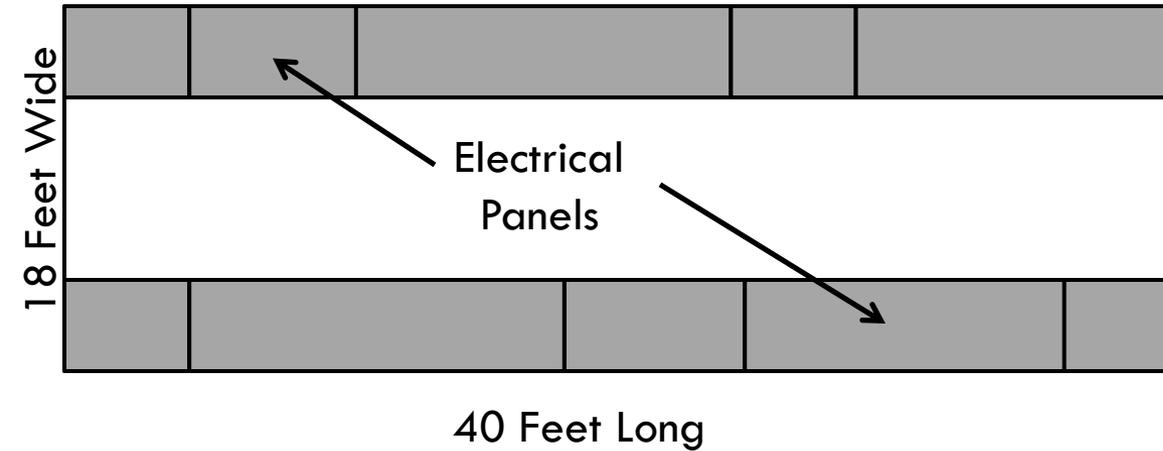
Carbon Scrubber Vessel

Odor Control Room General Layout

55 Feet Long



Electrical Room General Layout



Design Considerations

- Operator safety
- Codes and regulations
- Equipment access for maintenance and replacement



Electrical Panels

Engine Generator Equipment

Louver



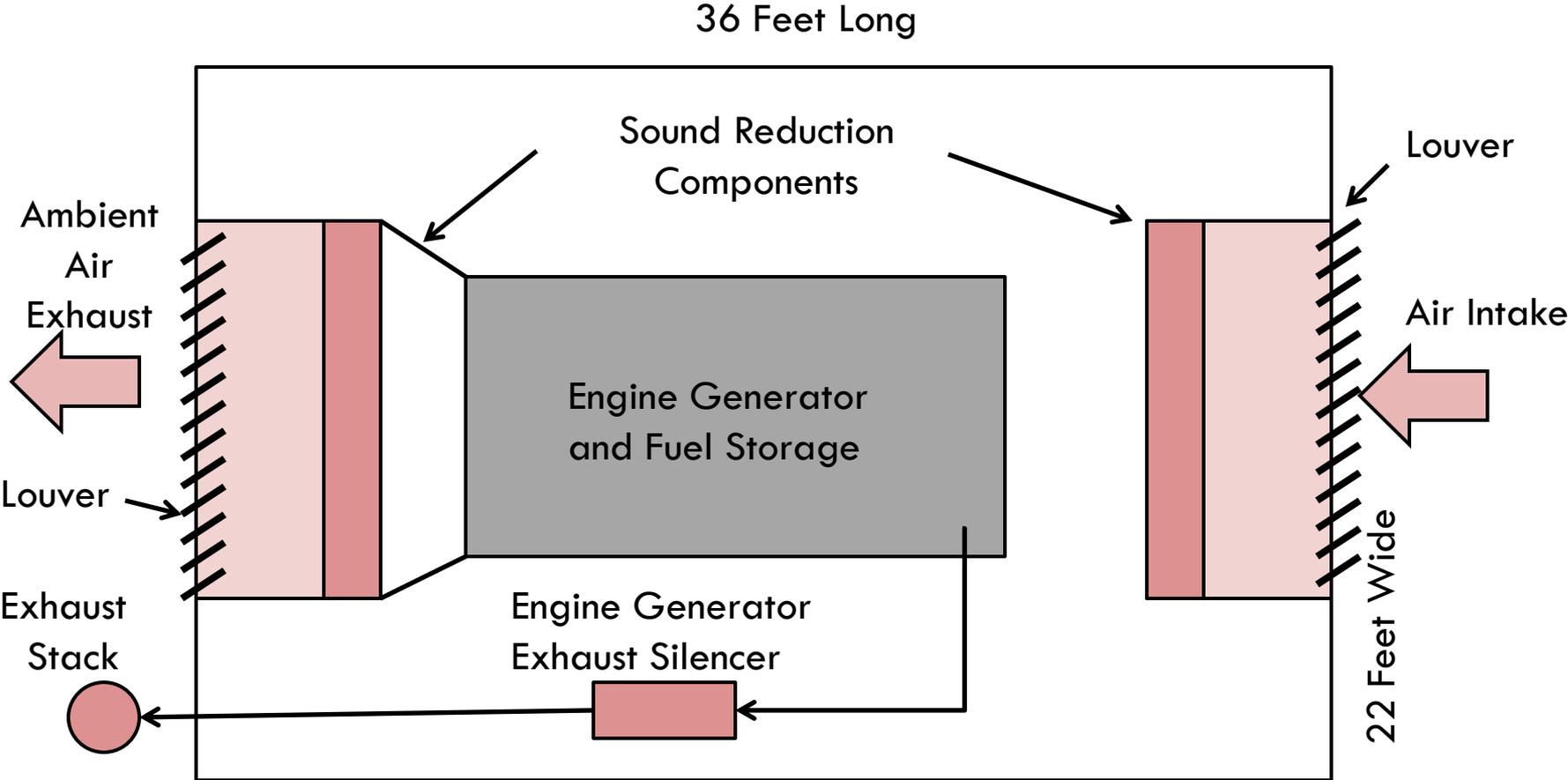
Engine Generator



Engine Generator Room General Layout

Design Considerations

- Operator safety
- Codes and regulations
- Refueling

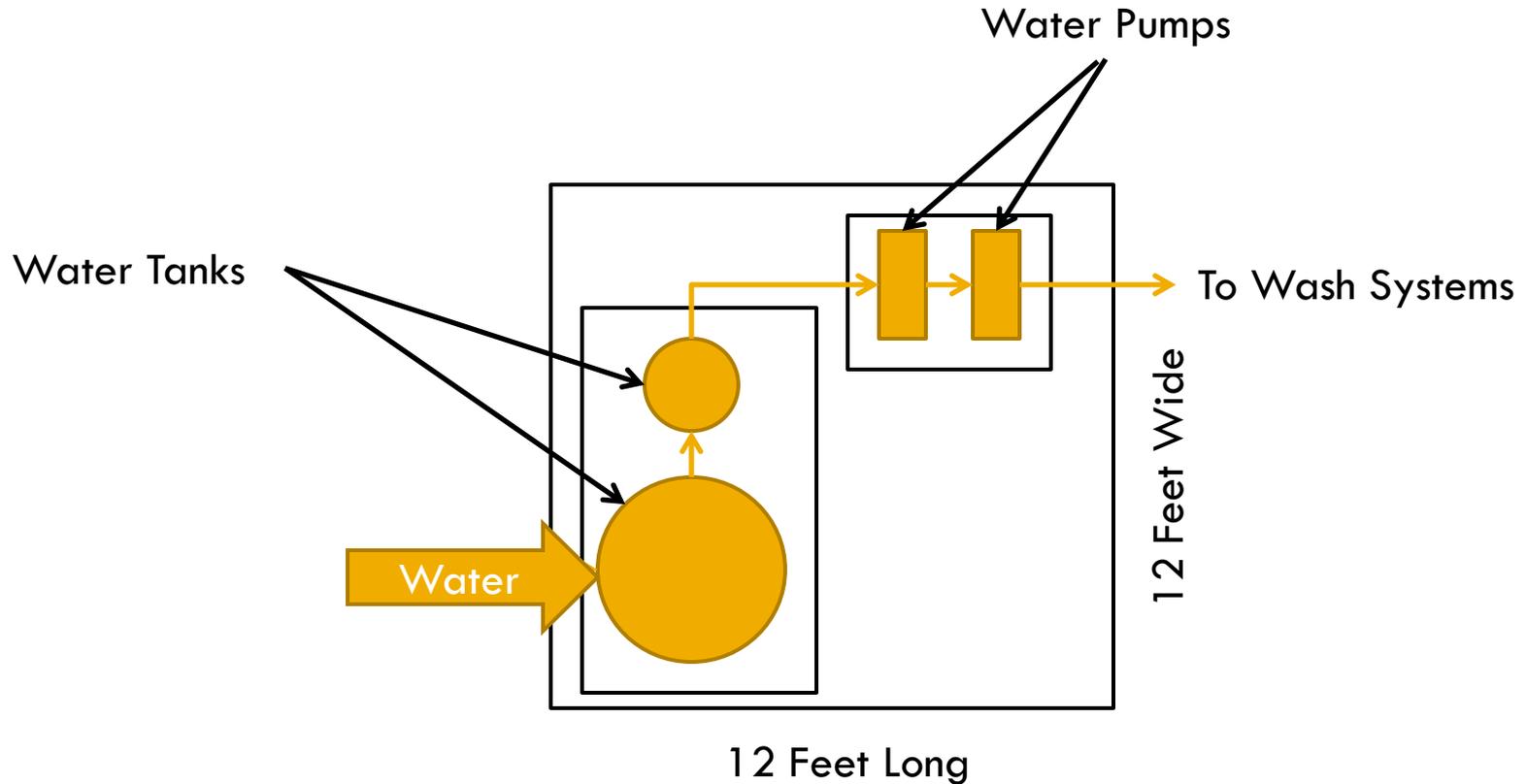


Miscellaneous Mechanical Equipment

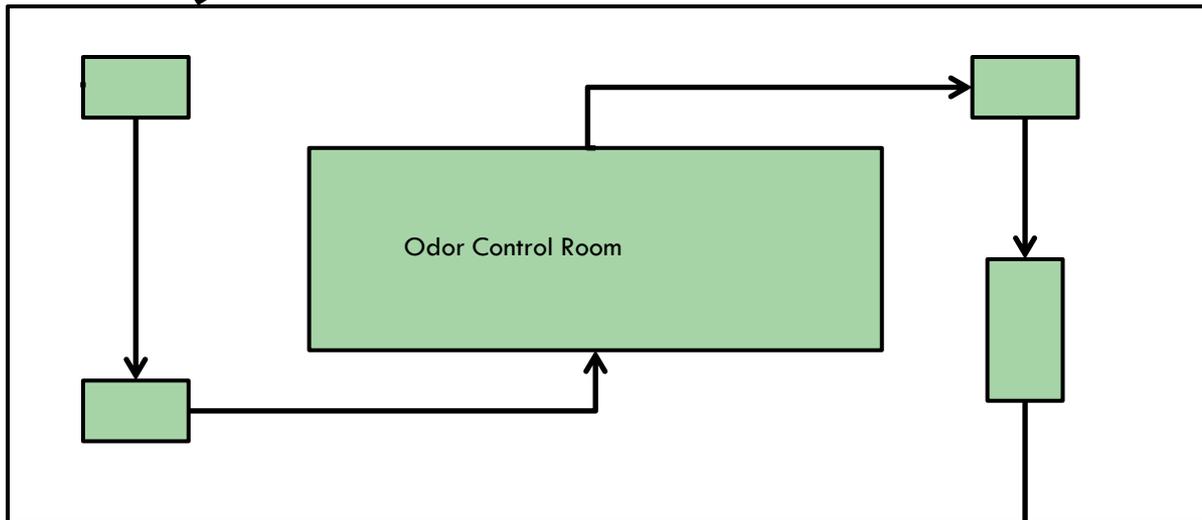
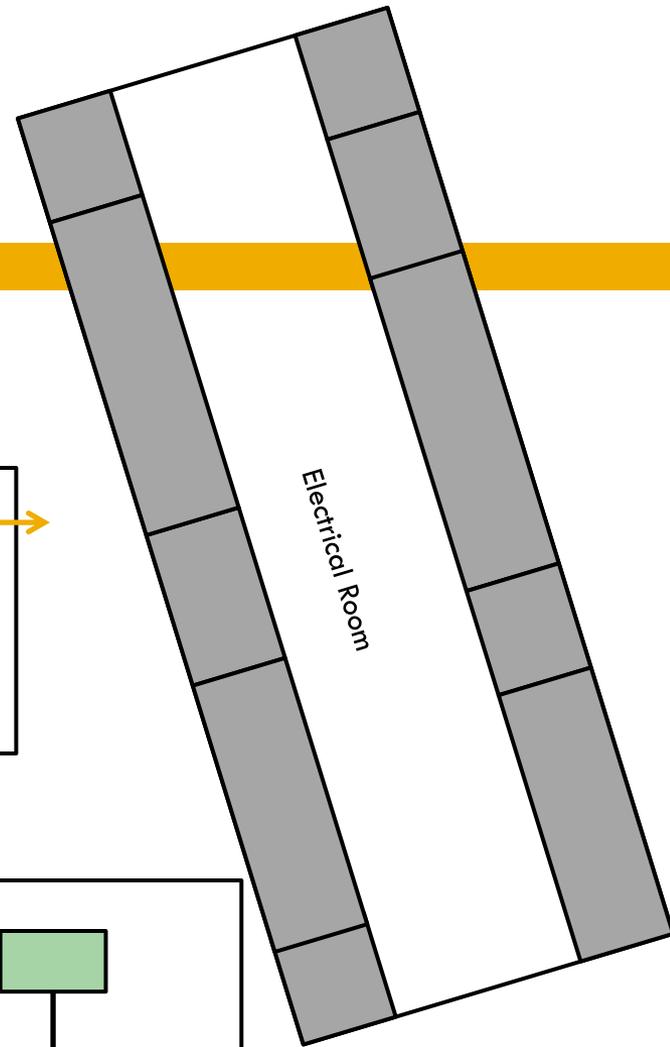
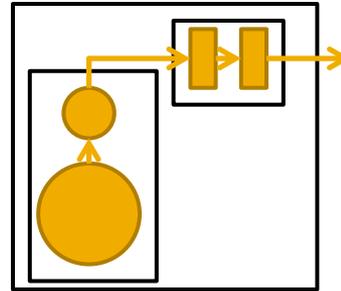
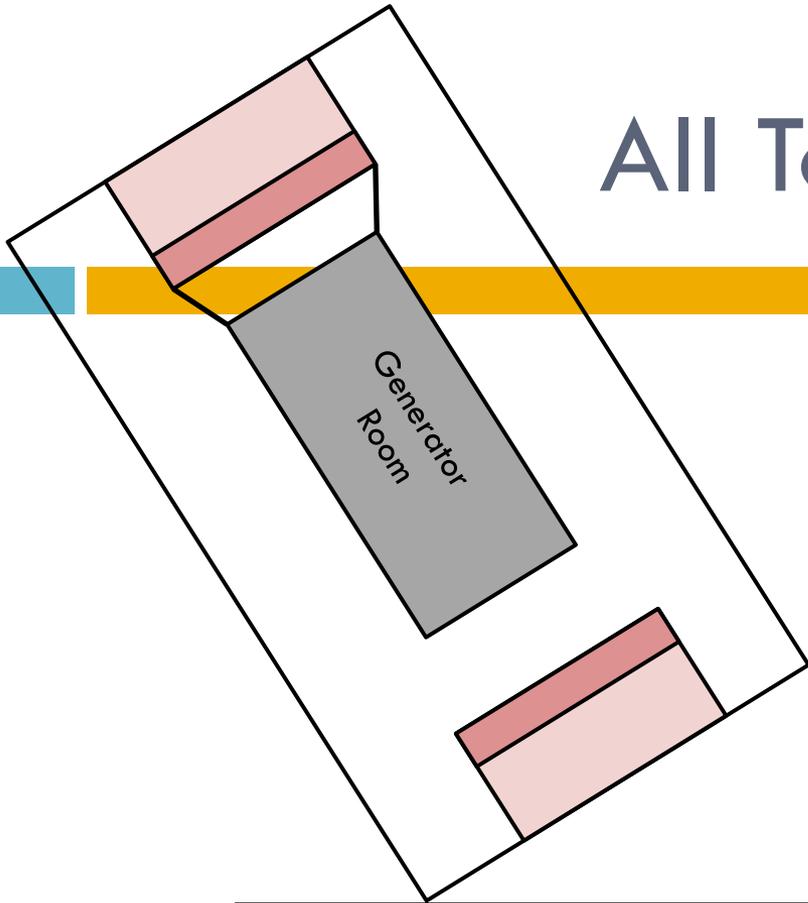


Tank Cleaning Systems

Mechanical Equipment General Layout

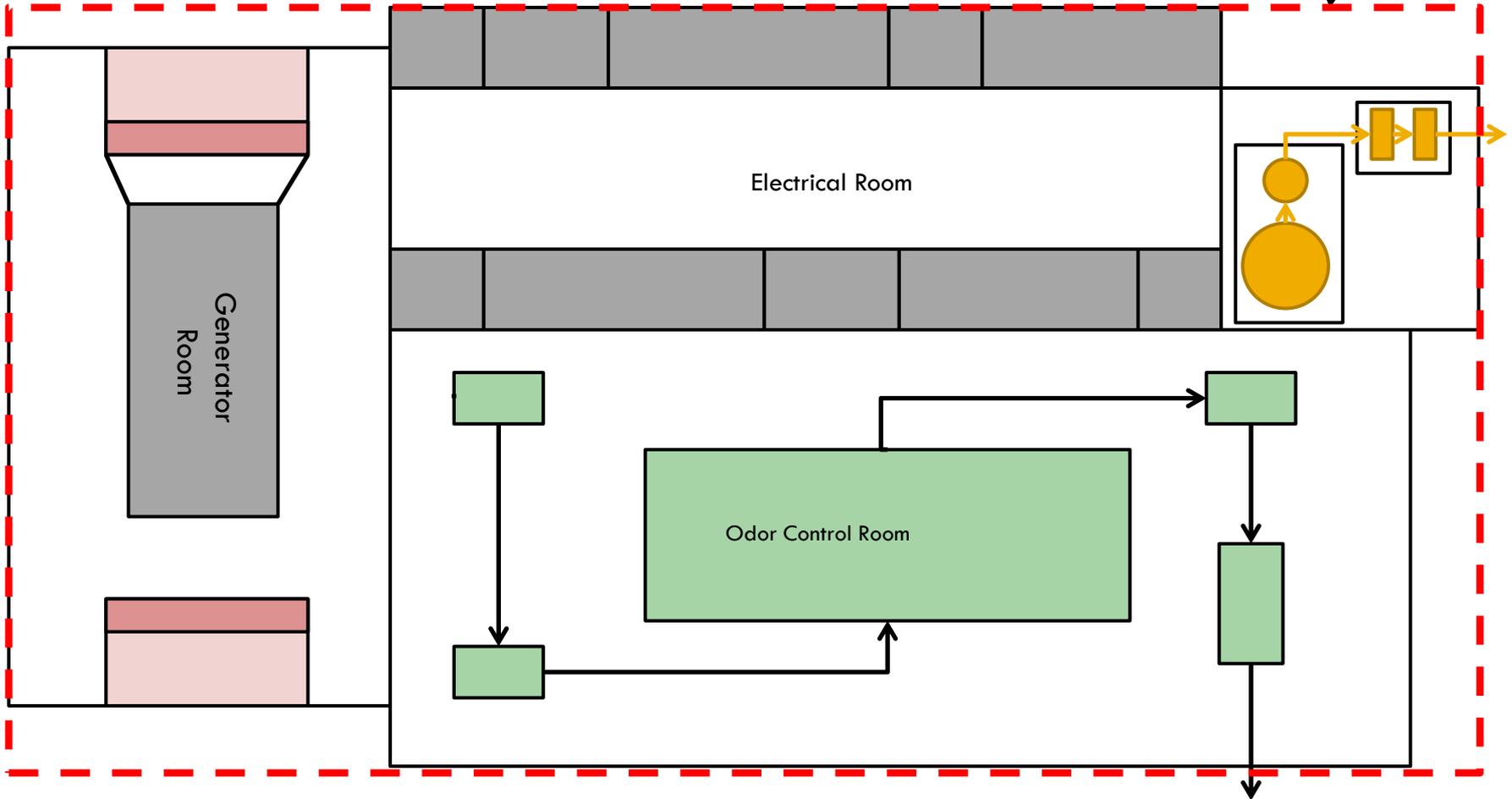


All Together

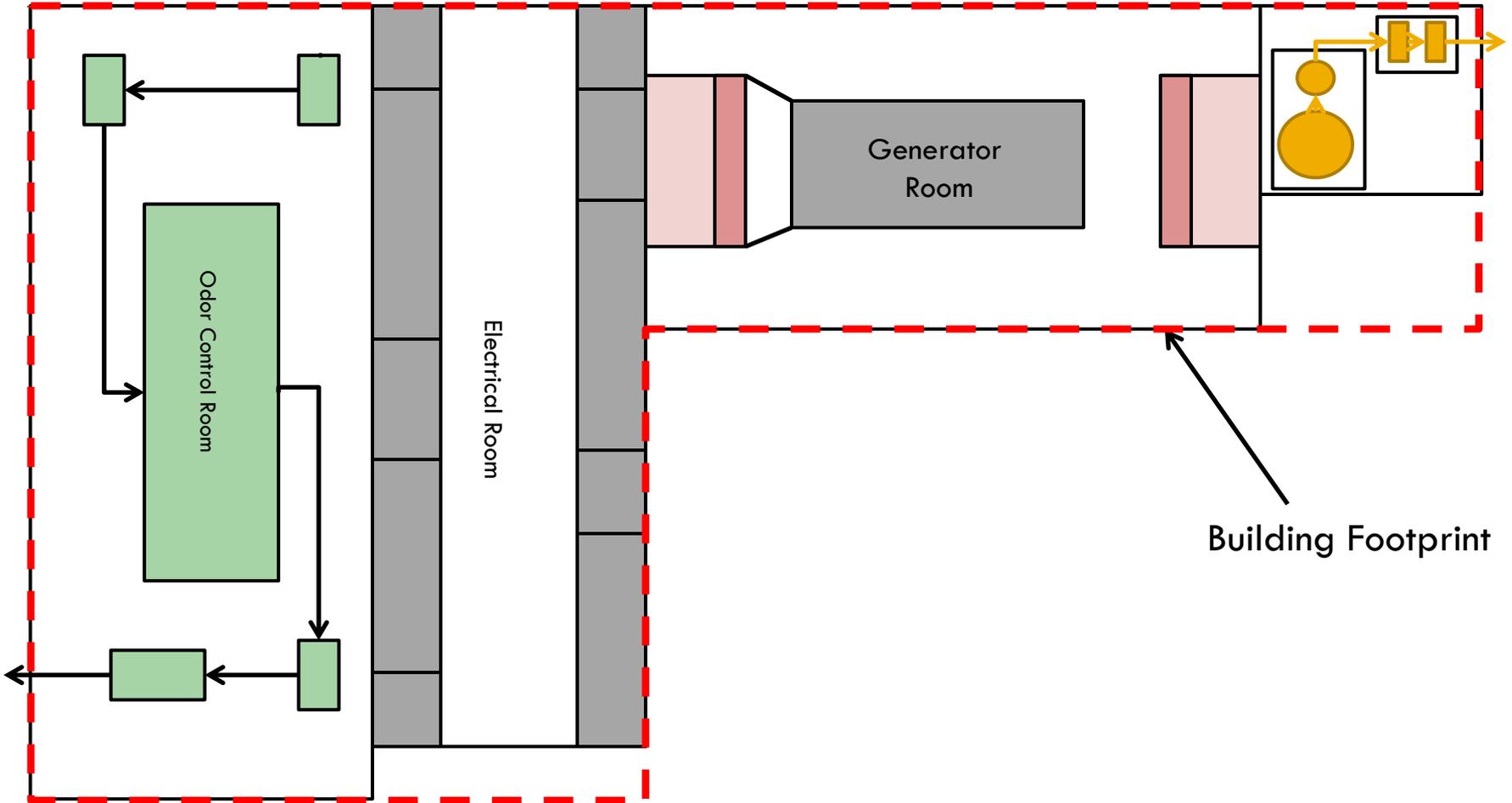


All Together

Building Footprint



All Together



Imagining surface design



Small Group Work

- Parameters for activity
- Questions for discussion
 - ▣ Written comments by end of day today if possible
- Report back to full group – small groups need:
 - ▣ Scribe
 - ▣ Reporter

SMALL GROUP DISCUSSION TOPICS

- Theme and character of the site
- Site use
- Aesthetics of visible elements
- Landscaping
- Green building opportunities
- Miscellaneous (Lighting, fencing, ventilation stacks, etc.)

SMALL GROUP REPORTS



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