

#WasteExpo

WasteExpo.com



Organic Waste Diversion – Example Projects Integrated Facilities



Organics Diversion and Collection

About JRMA



<http://www.jrma.com/>

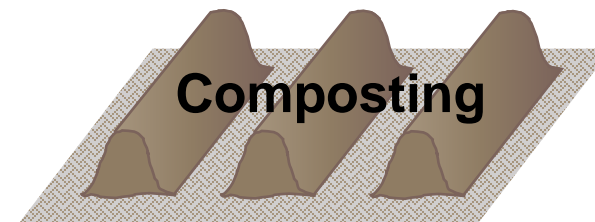
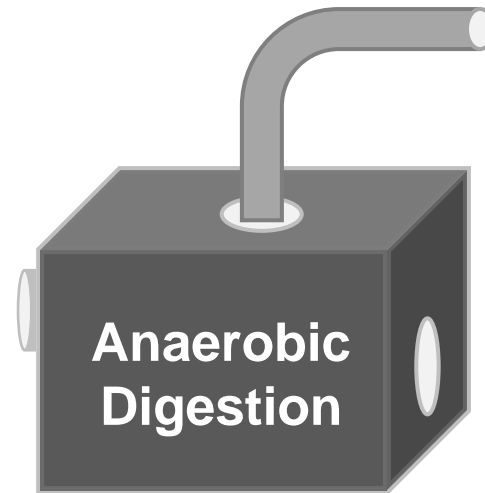


The Target (California)

SB 1383

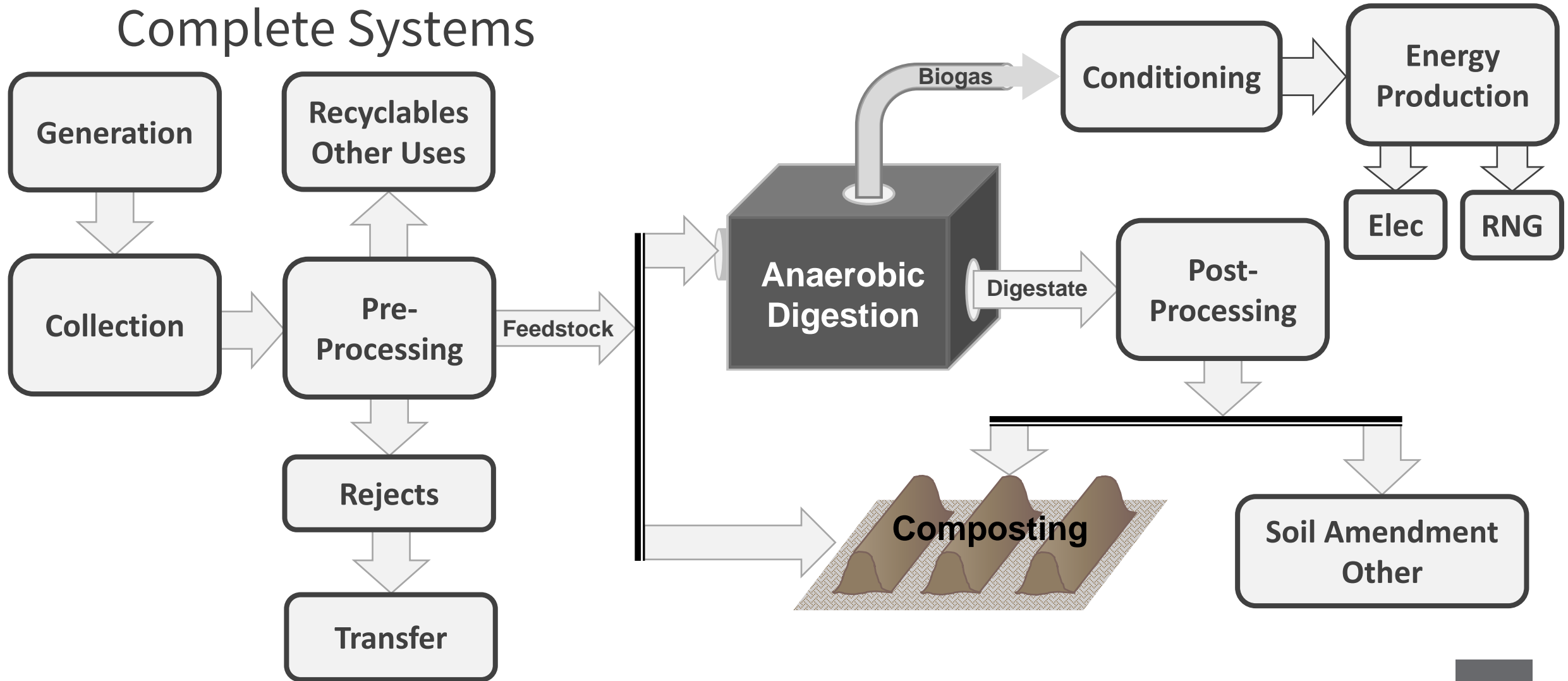
- 75% reduction in landfill disposal of organics by 2025 based on 2014 data
 - Organic materials disposed in 2014
 - Yard/Green waste 2,140,000 T
 - Food waste 5,600,000 T
 - Compostable papers 2,850,000 T
- Total: **10,590,000 T**

Organics Processing Options



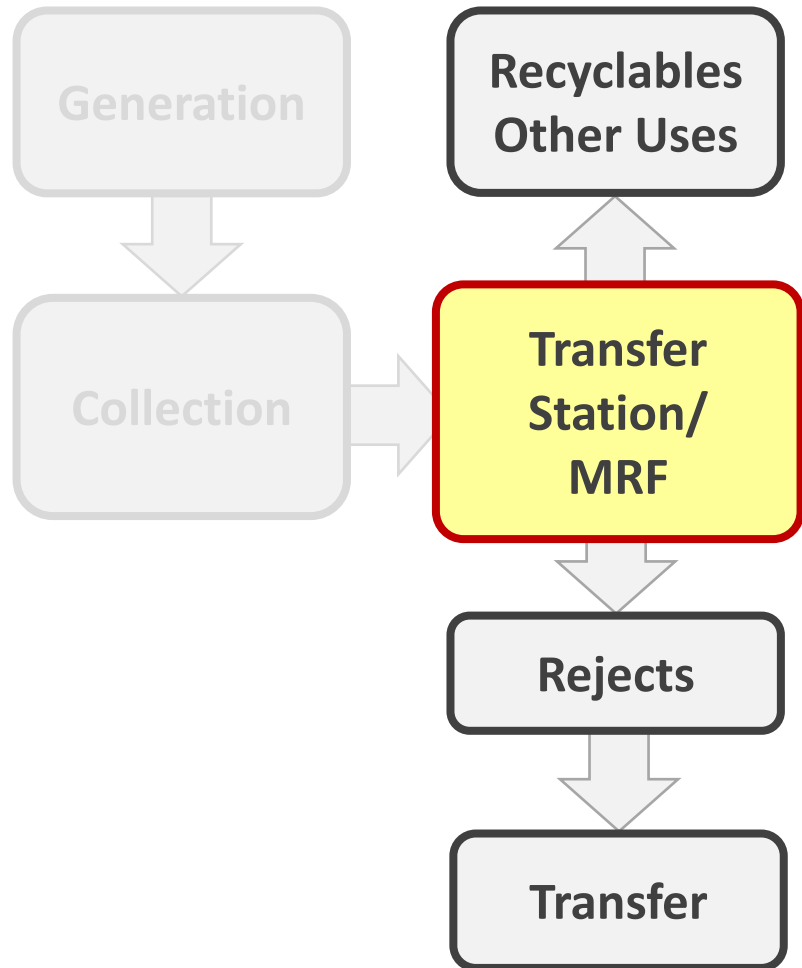
Organics Processing Systems

Complete Systems



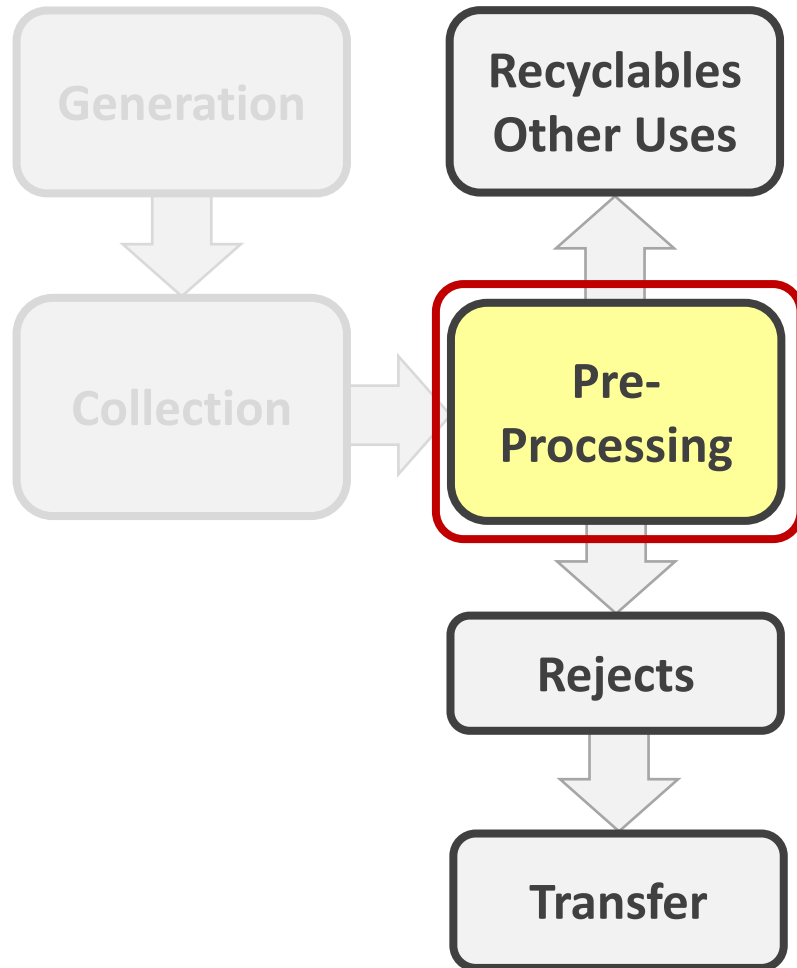
Existing Infrastructure

Transfer Stations / MRF's



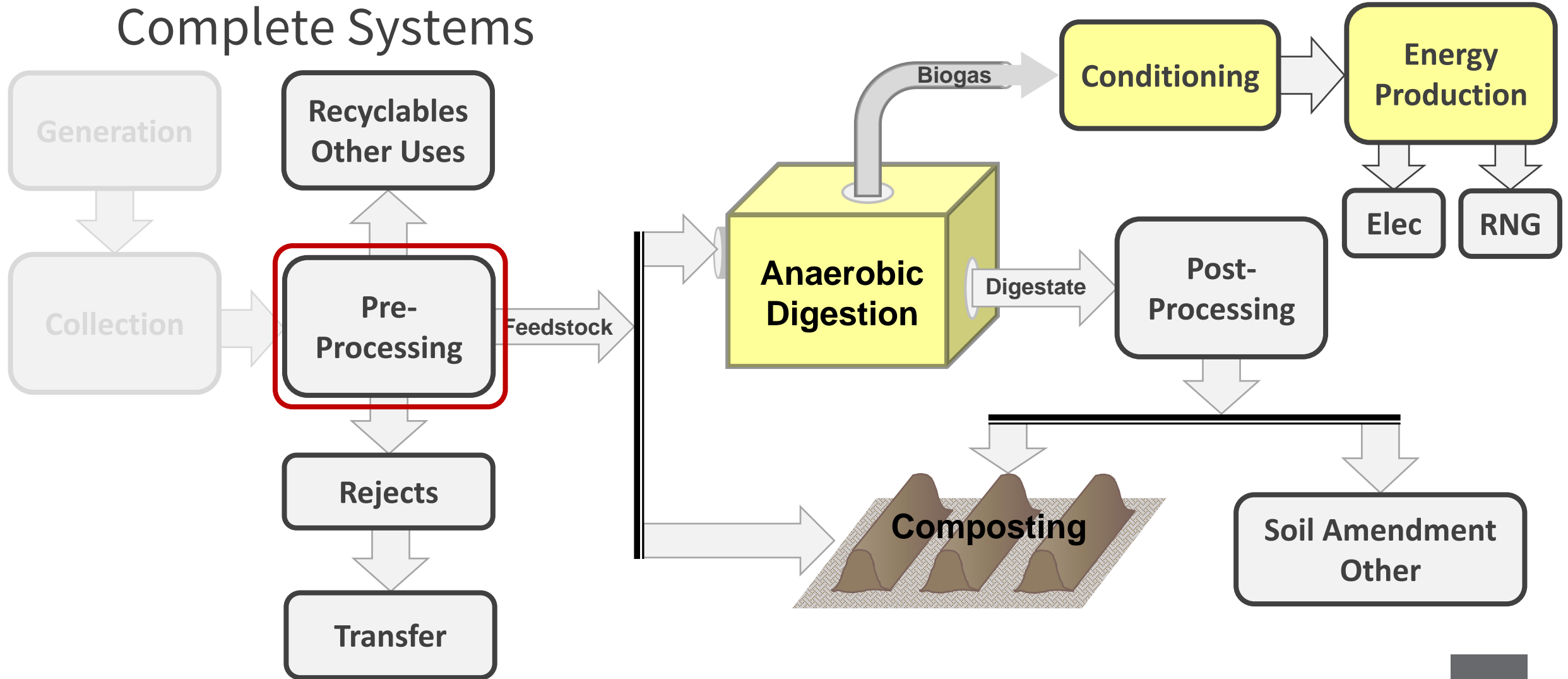
Organics Processing Systems

Complete Systems



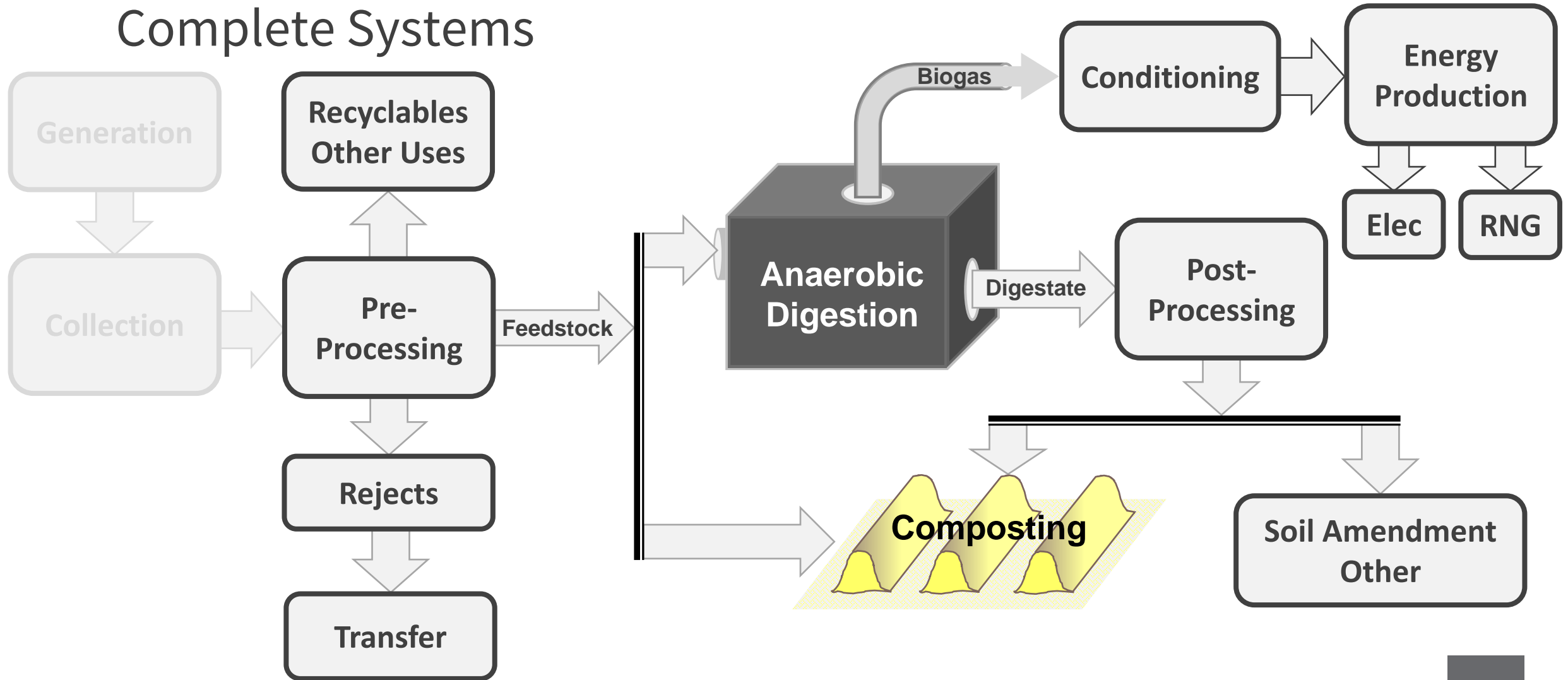
Organics Processing Systems

Complete Systems



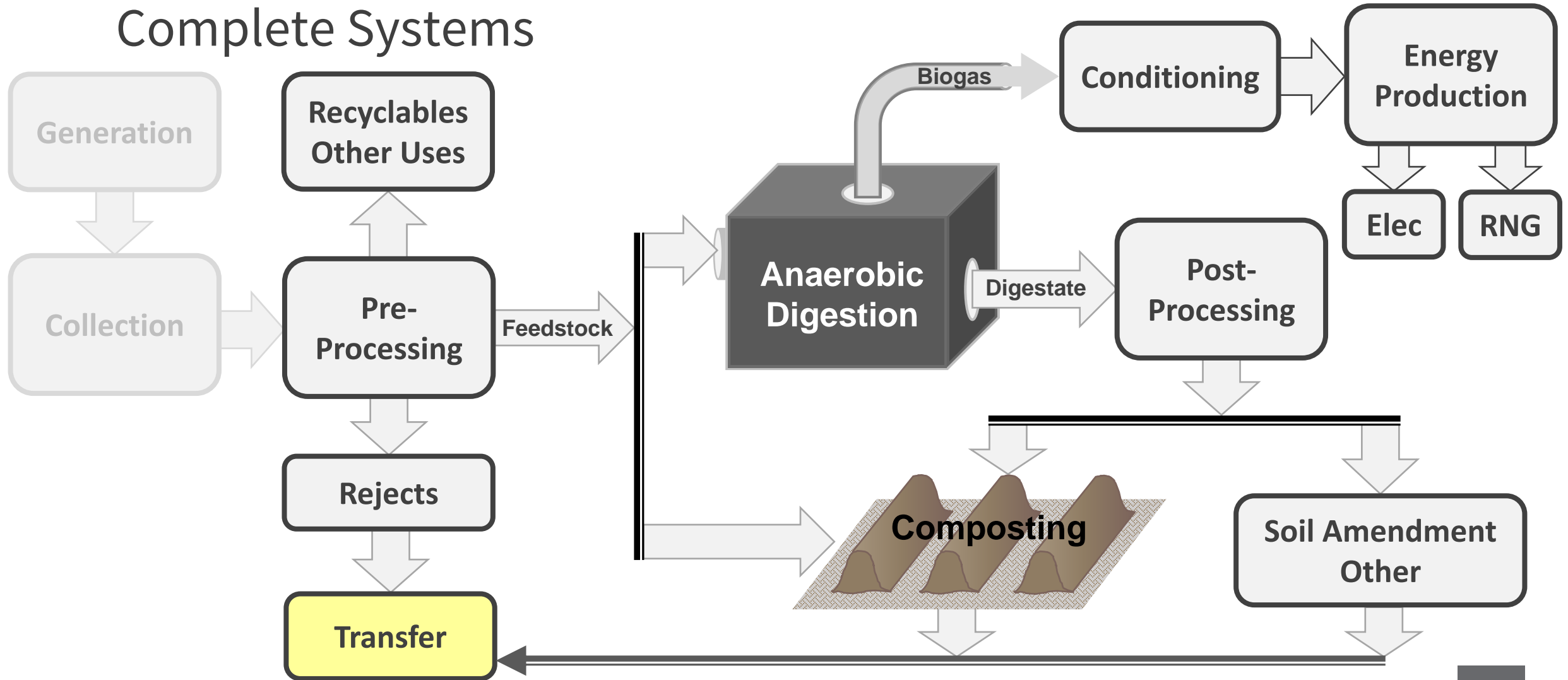
Organics Processing Systems

Complete Systems



Organics Processing

Complete Systems

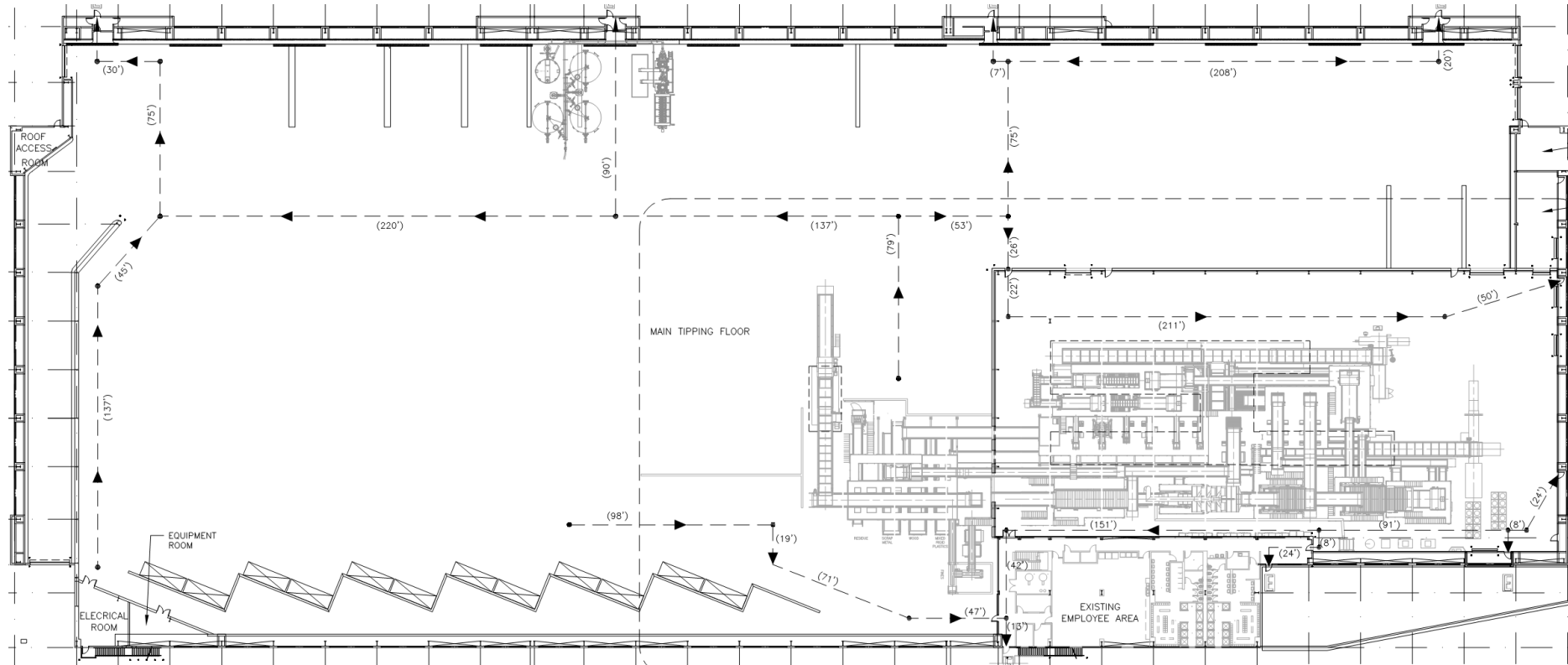


Benefits of Facility Integration

- CapEx reduction through use of existing infrastructure
- Operational efficiency
- Reduction in transportation
- Schedule advantage due to existing permits

Example Projects

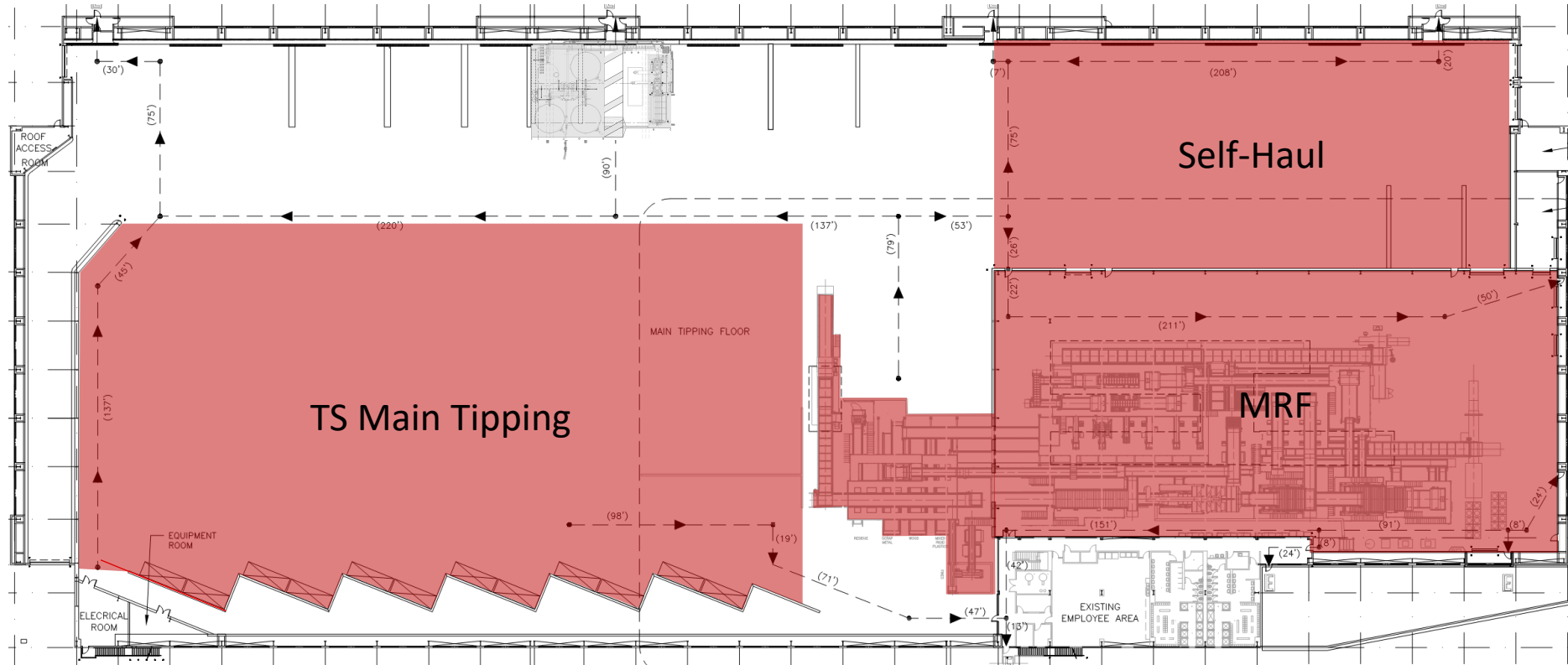
Food Waste Pre-Processing



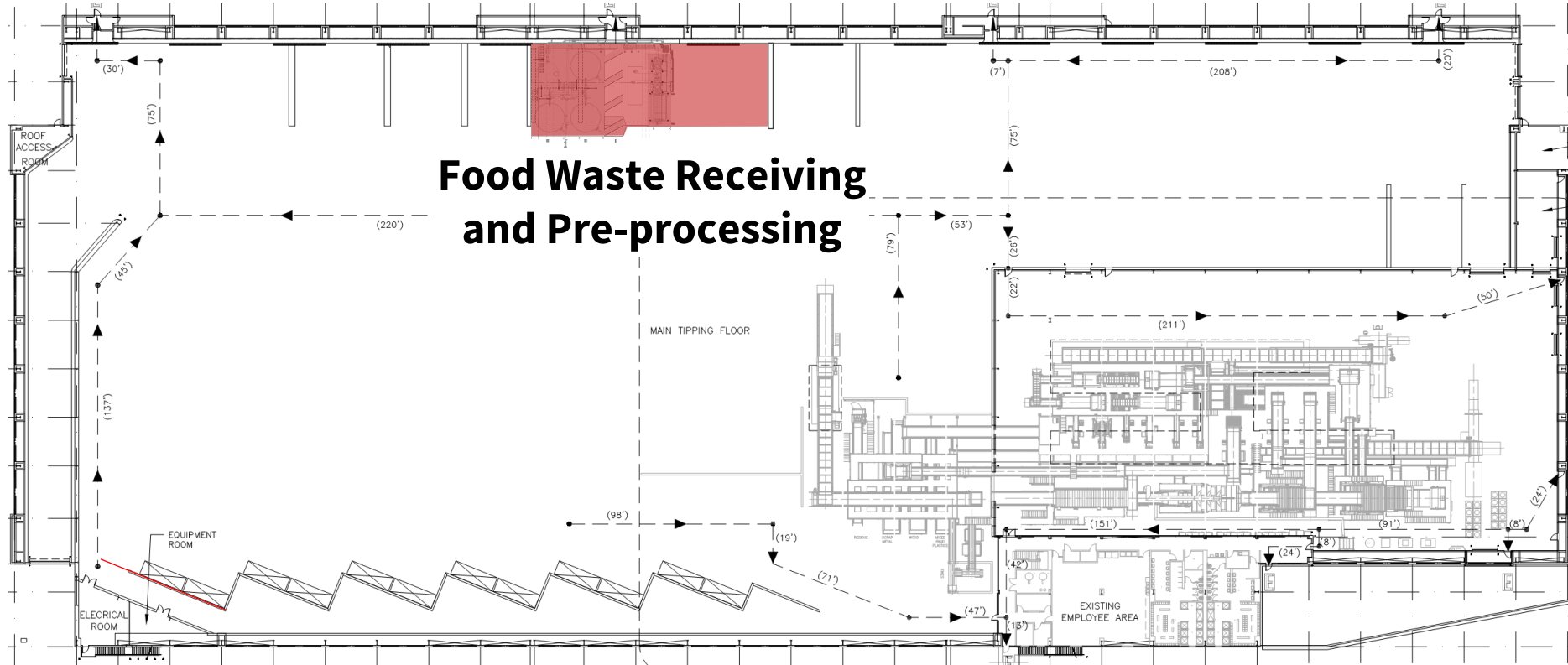
Existing Facility

- Location near residential and commercial
- 29.2 ac site
- 4,400 TPD permitted volume
- 217,000 sf building

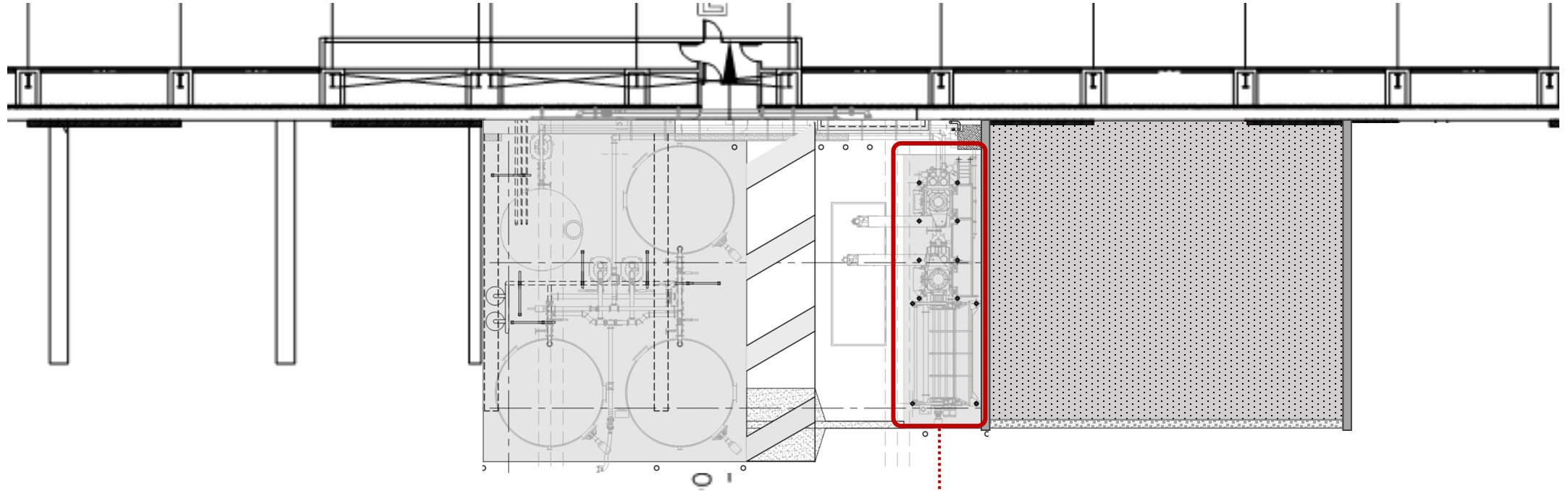
Food Waste Pre-Processing



Food Waste Pre-Processing



Food Waste Pre-Processing

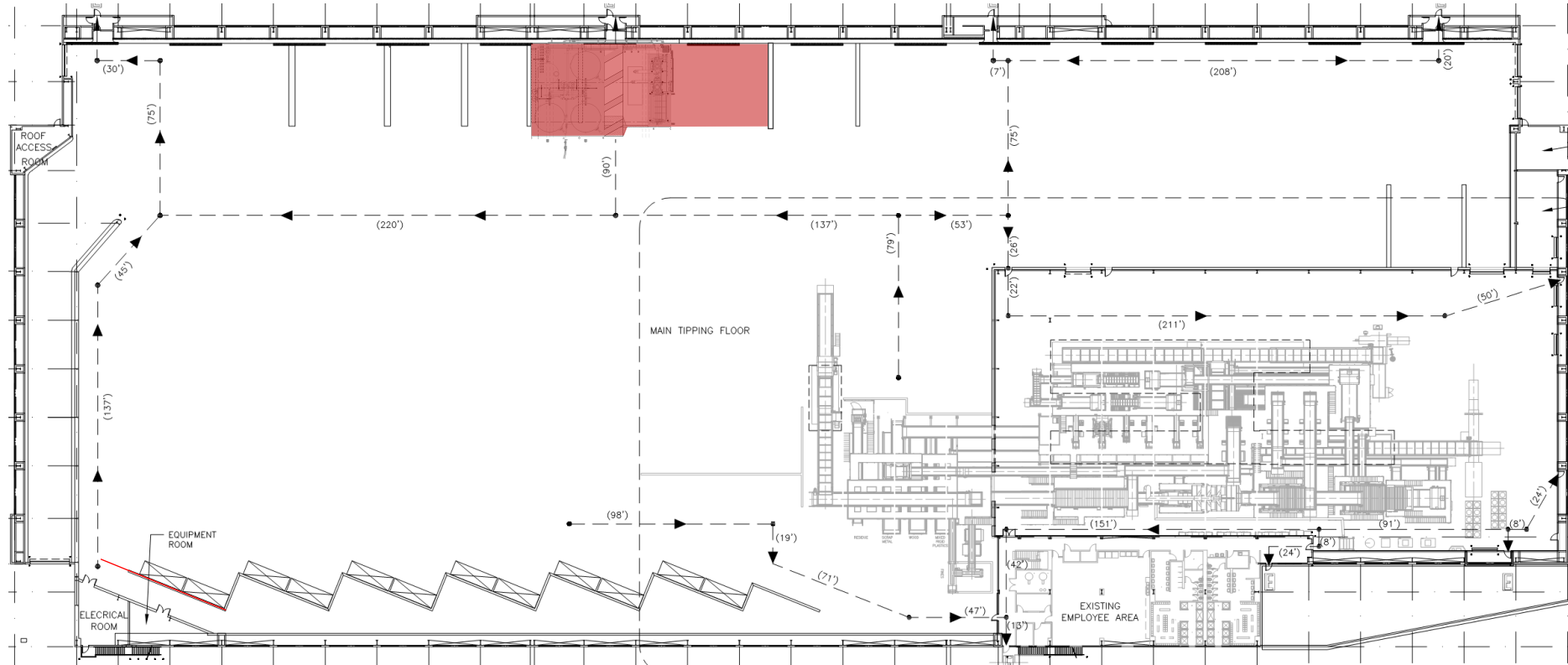


Project Summary

- 40,000 TPY to WWTP

Doda Bio Separator

Food Waste Pre-Processing



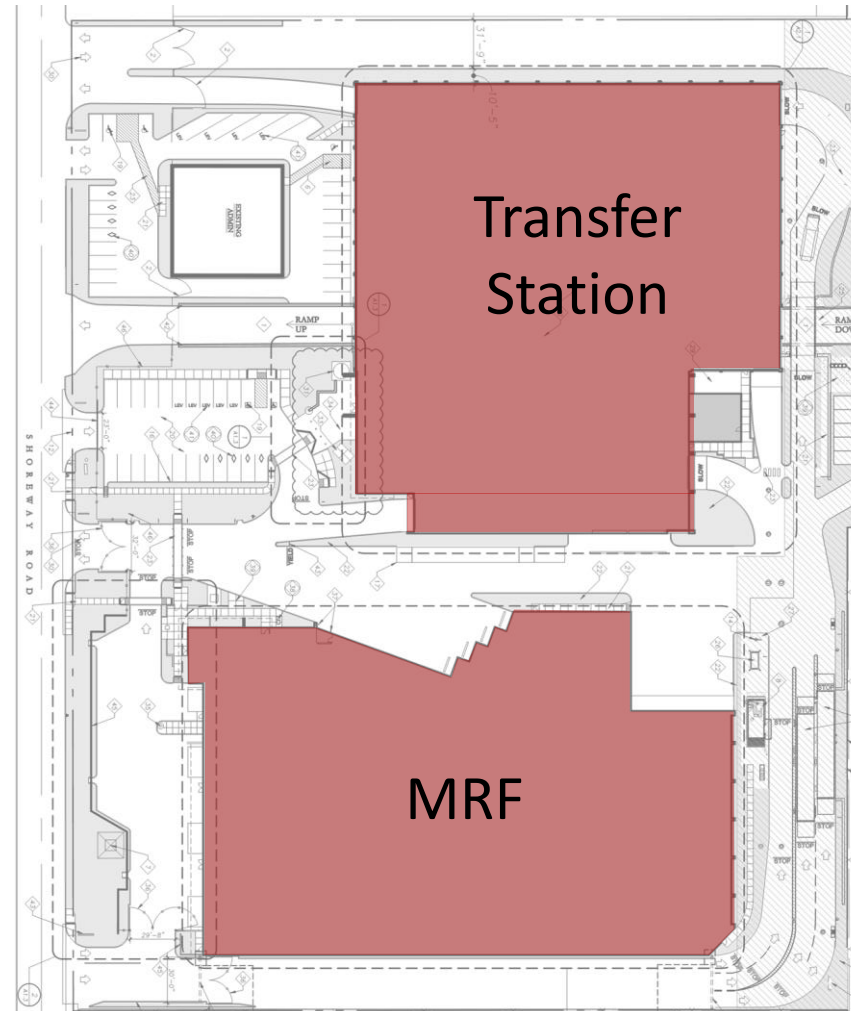
Project Summary

- 40,000 TPY to WWTP

Food Waste Pre-Processing

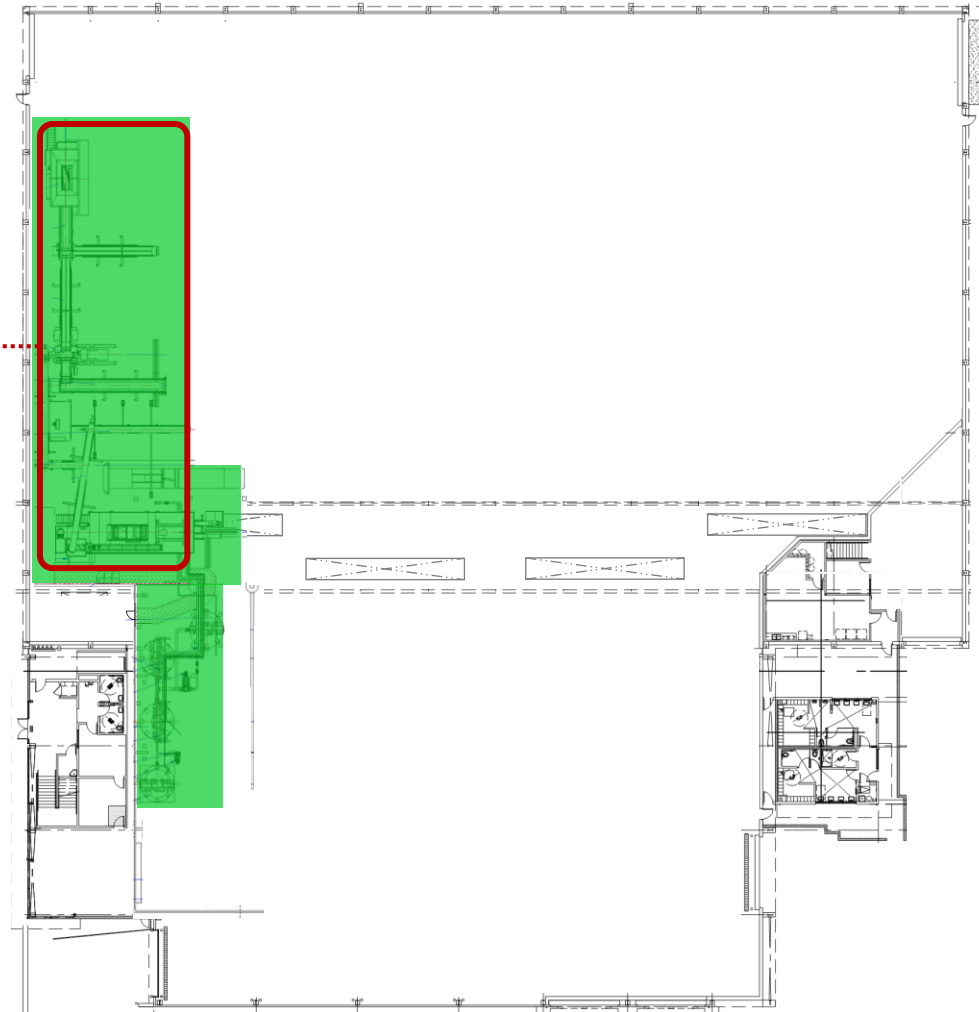
Existing Facility

- Urban location
- 3,000 TPD permitted volume



Food Waste Pre-Processing

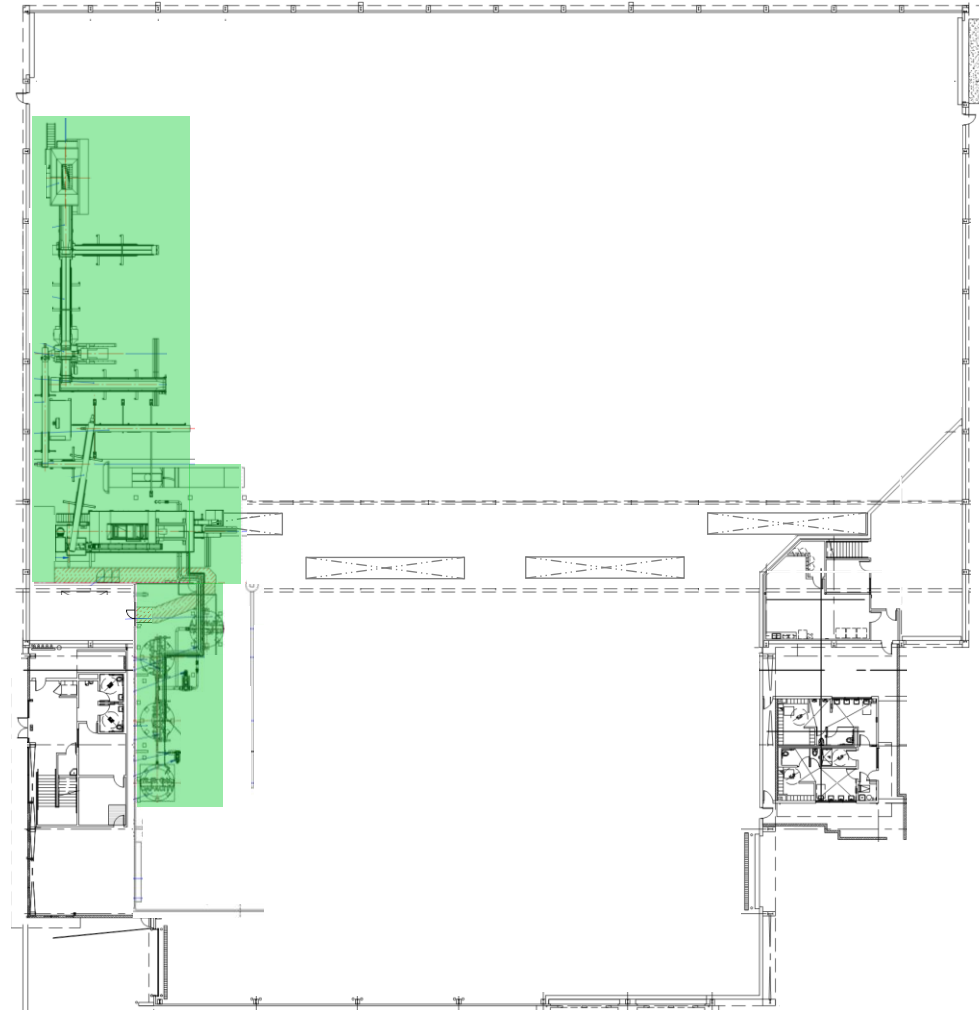
**Anaergia OREX Press
and Polishing System**



Food Waste Pre-Processing

Project Summary

- 20,000 TPY to WWTP



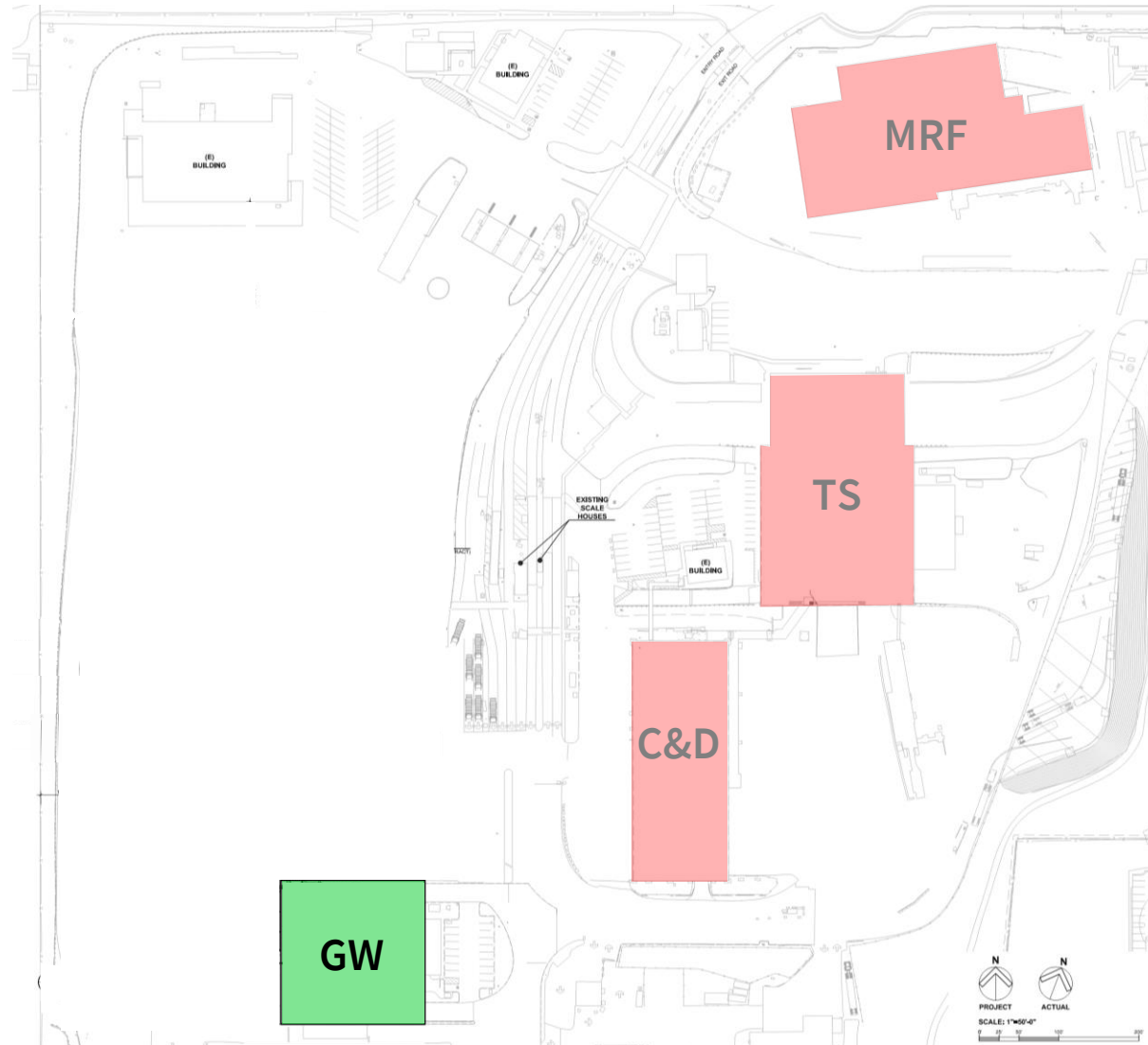
Composting

Existing Facility

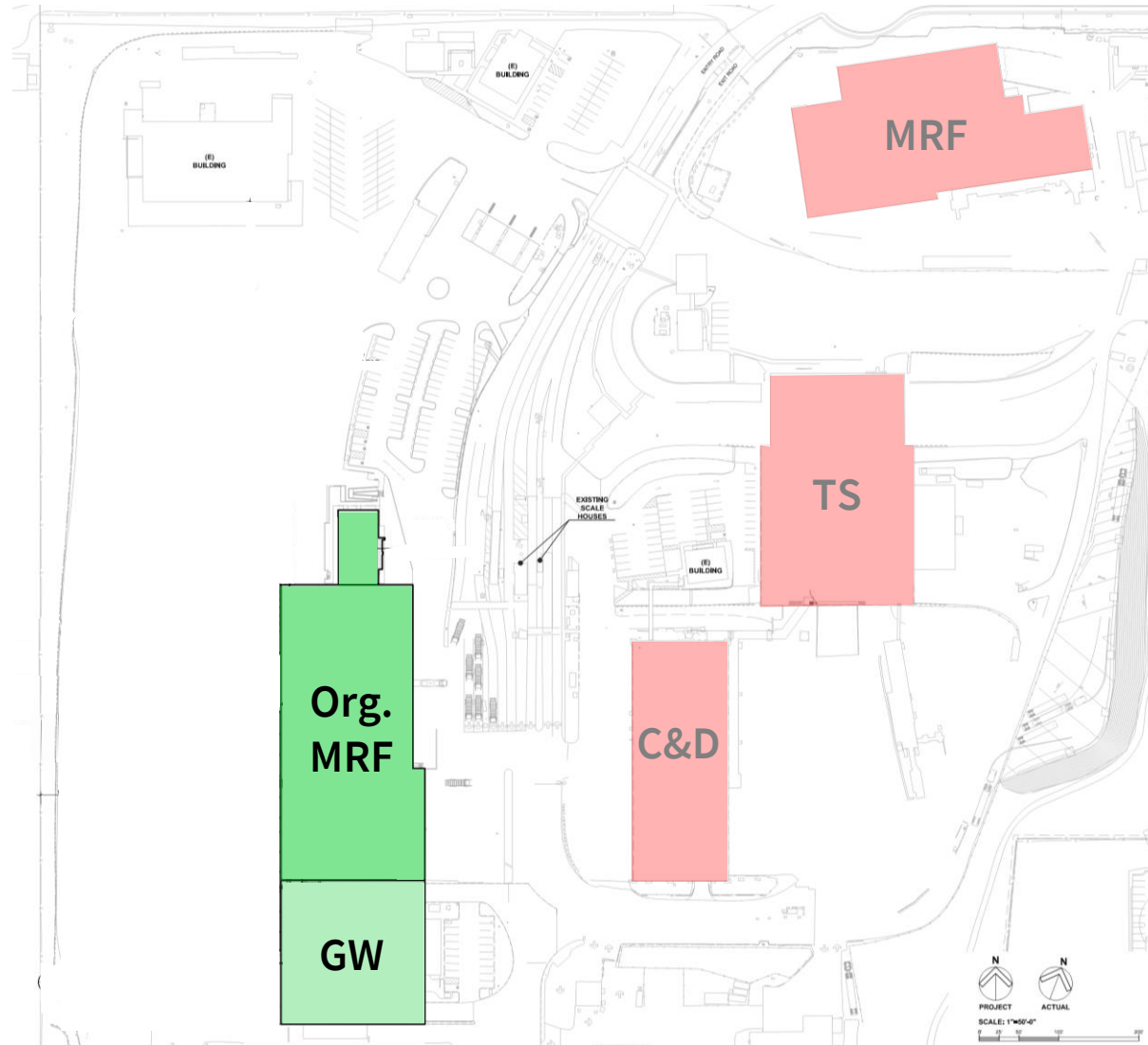
- Urban location
- 50 ac site
- 144,000 sf buildings
- 5,600 TPD permitted volume



Composting



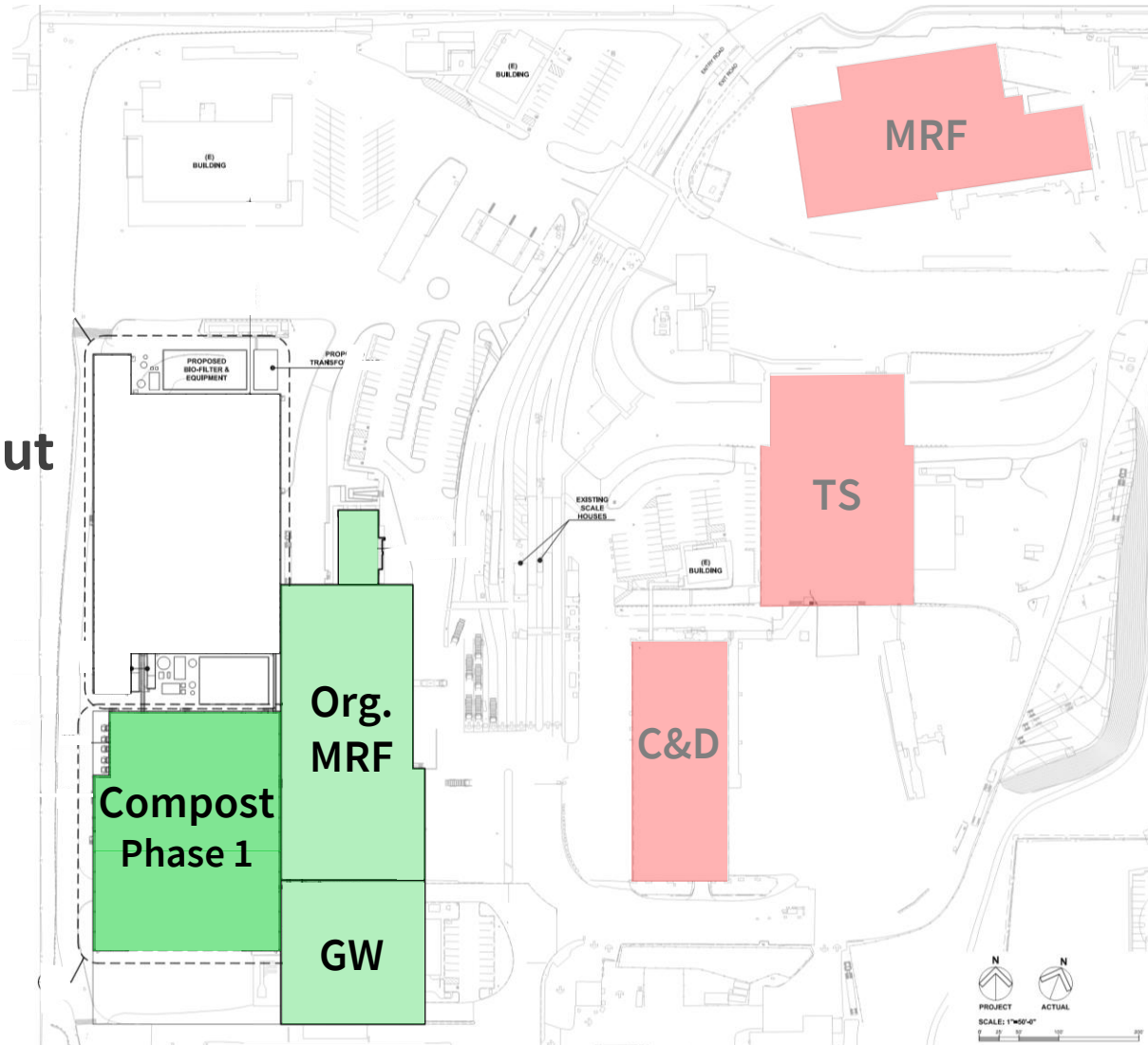
Composting



Composting

Project Summary

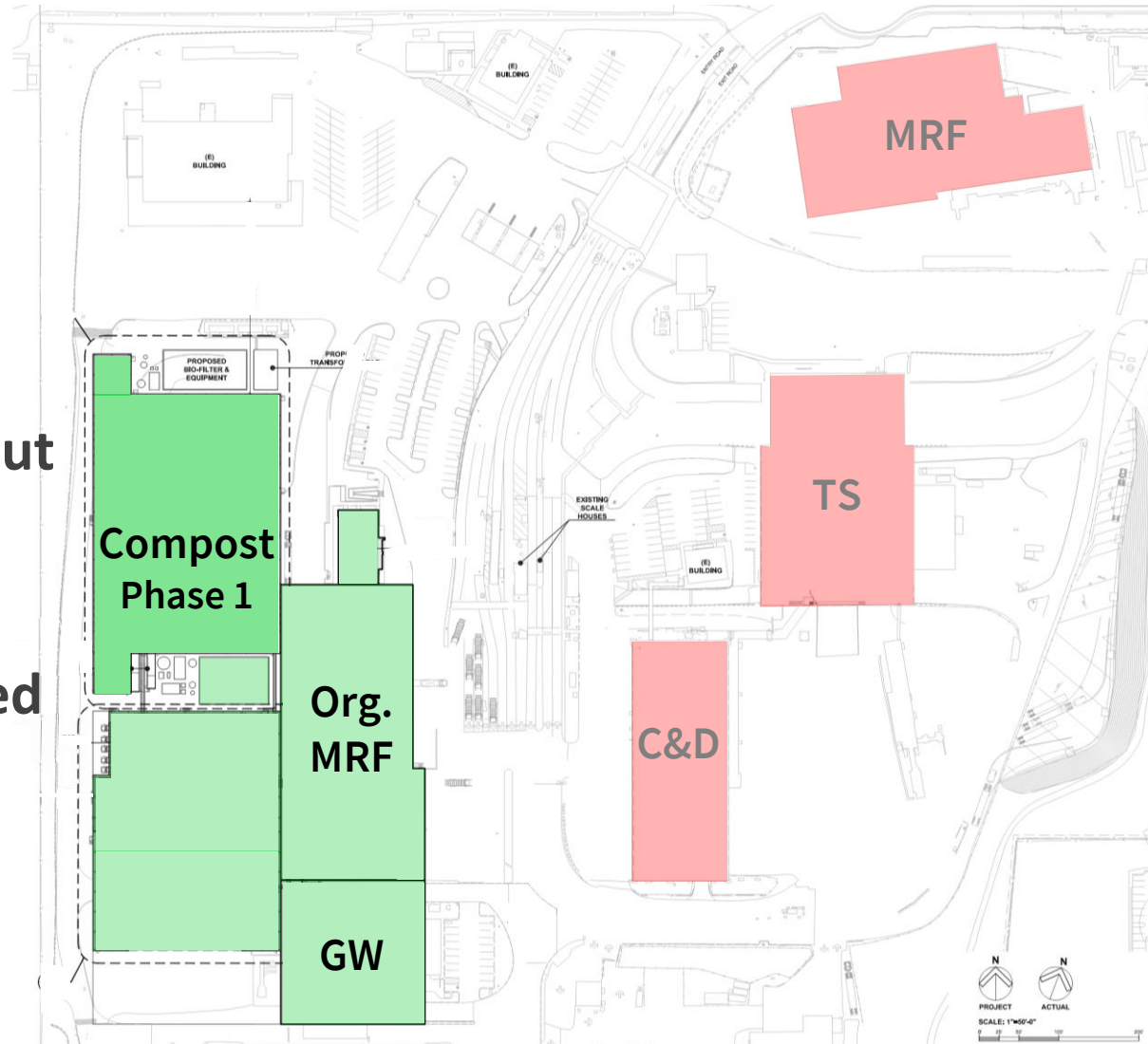
- Highly mechanized CAASP System
- 300,000 TPY throughput
- Ability to capture and treat all exhaust air



Composting

Project Summary

- Highly mechanized CAASP System
- 200,000 TPY throughput
- Ability to add 100,000 TPY
- All exhaust air captured and treated



Composting

Existing Facility

- Location near sensitive receptors
- 21 ac site
- 147,000 sf buildings
- 3,000 TPD permitted volume



Composting

CASP Composting

GW Receiving and
Pre-processing



Composting

Project Summary

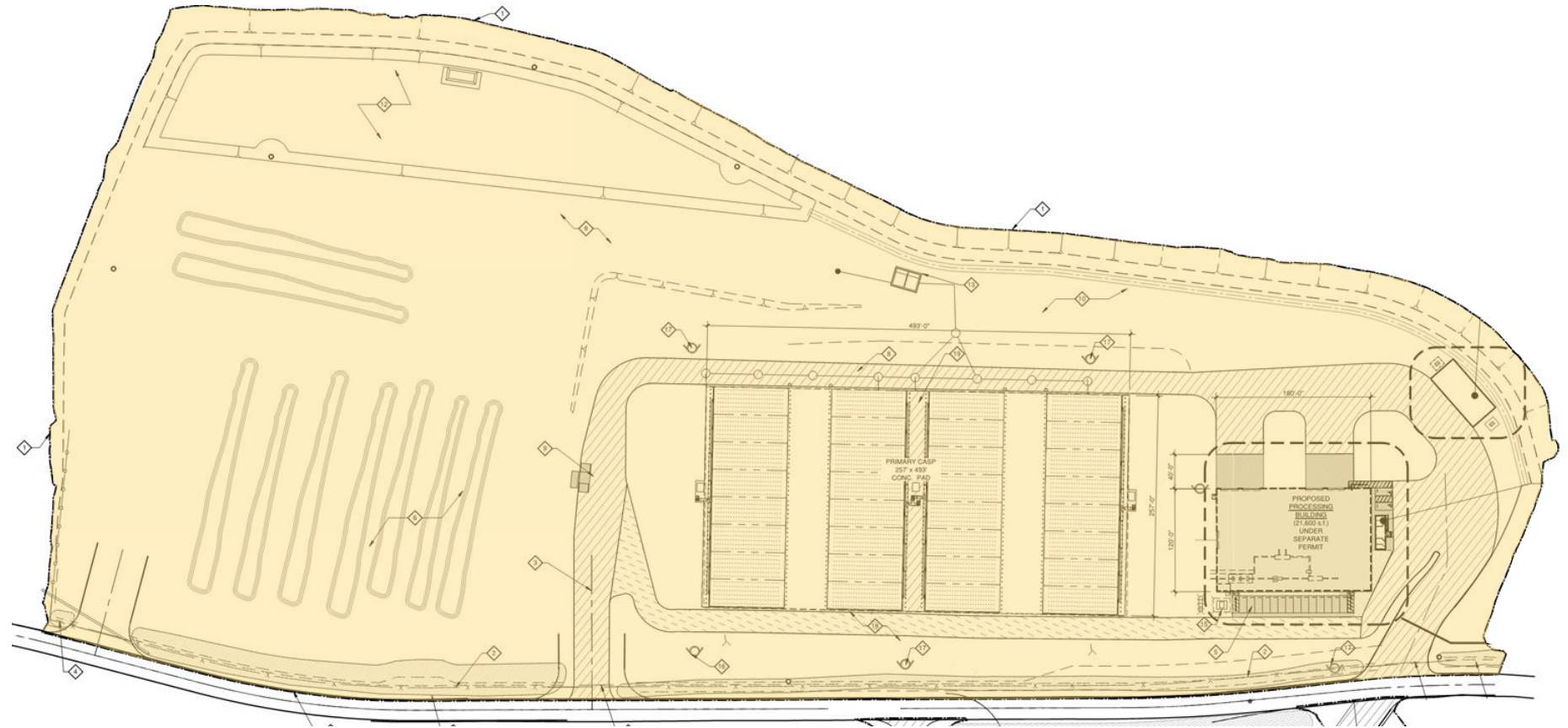
- **CASP System -**
minimized odor
- **50,000 TPY** throughput



Composting

Existing Facility

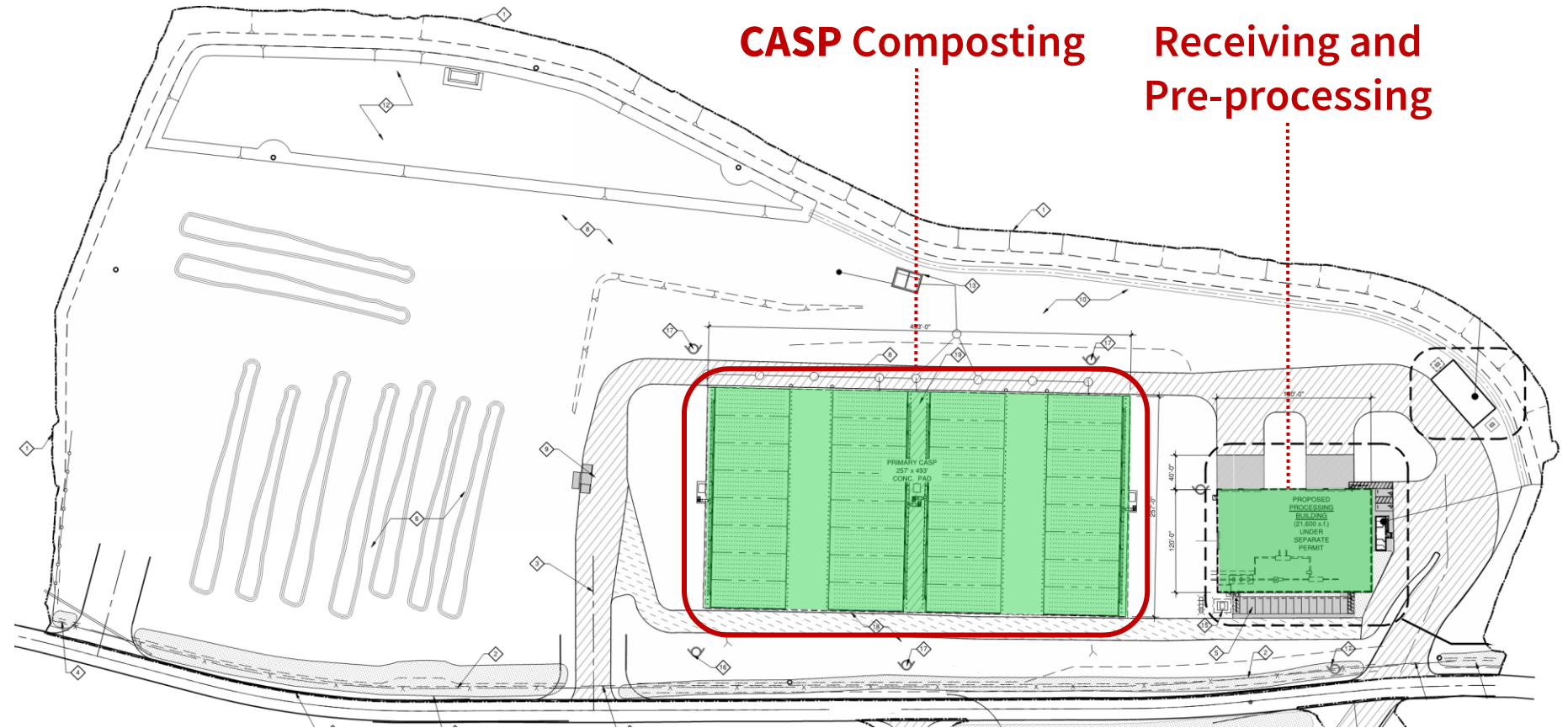
- Windrow composting
- Location in area with increasing population
- 50 ac site
- 700 TPD permitted volume



Composting

Project Summary

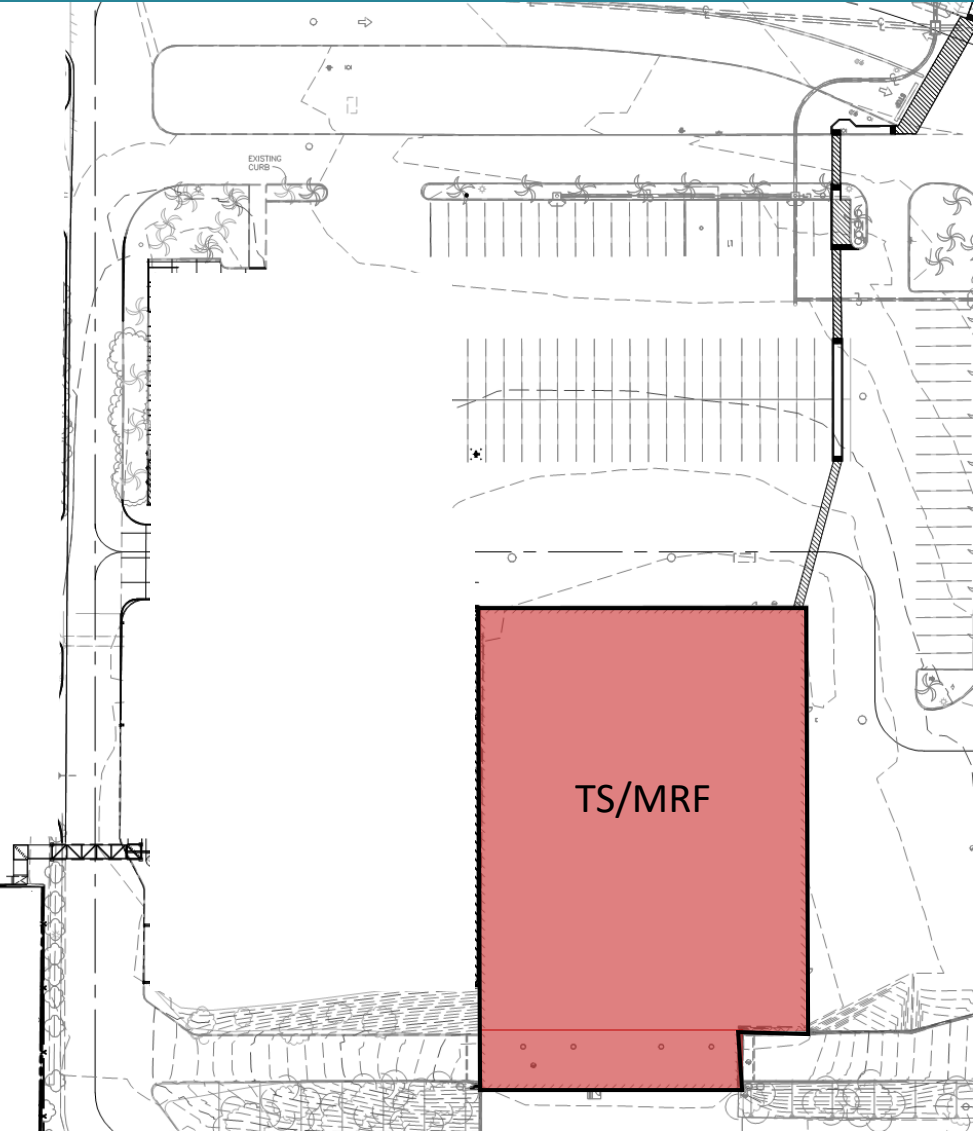
- 40 TPH Pre-processing system
- 100,000 TPY throughput



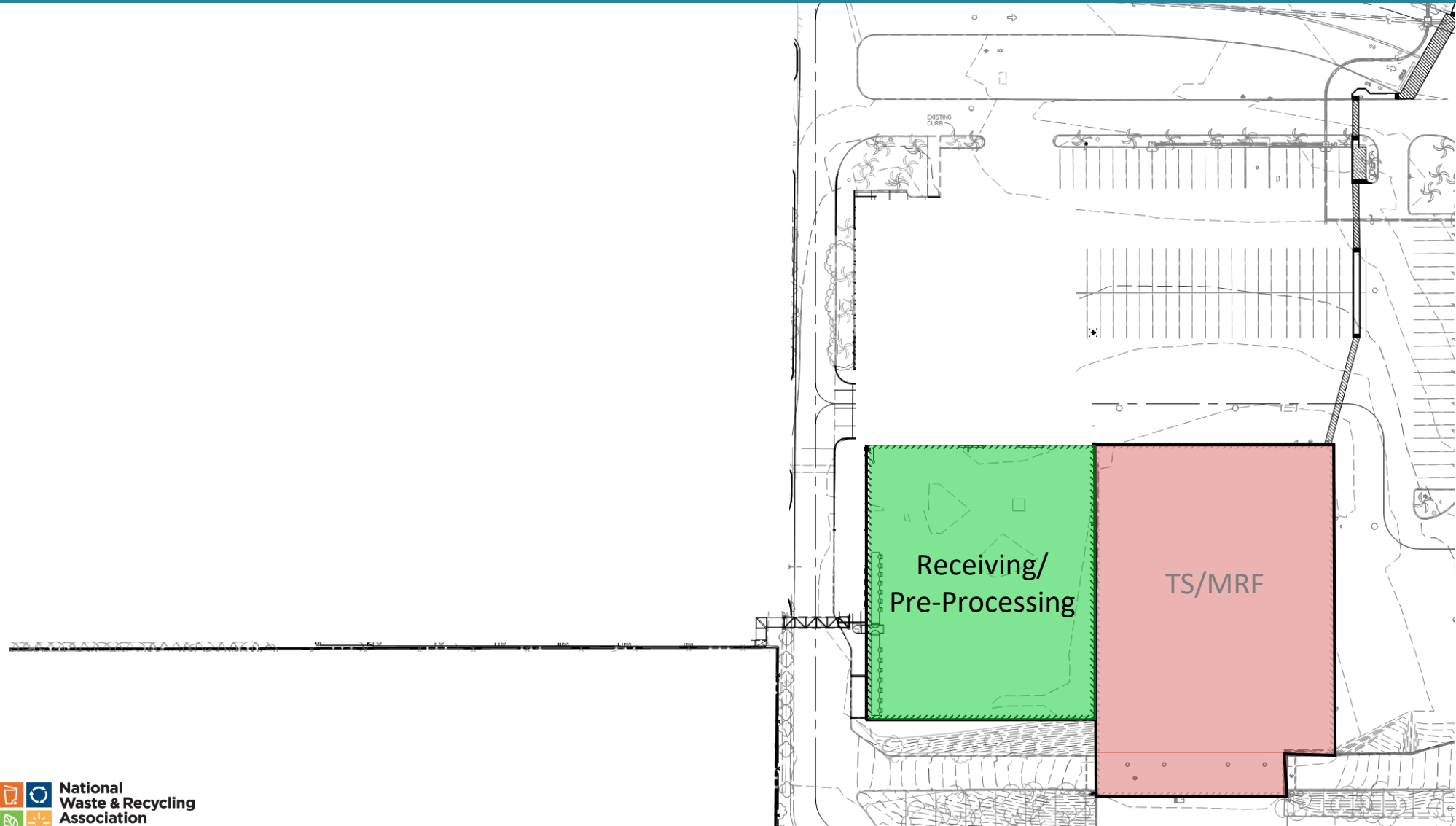
Anaerobic Digestion

Existing Facility

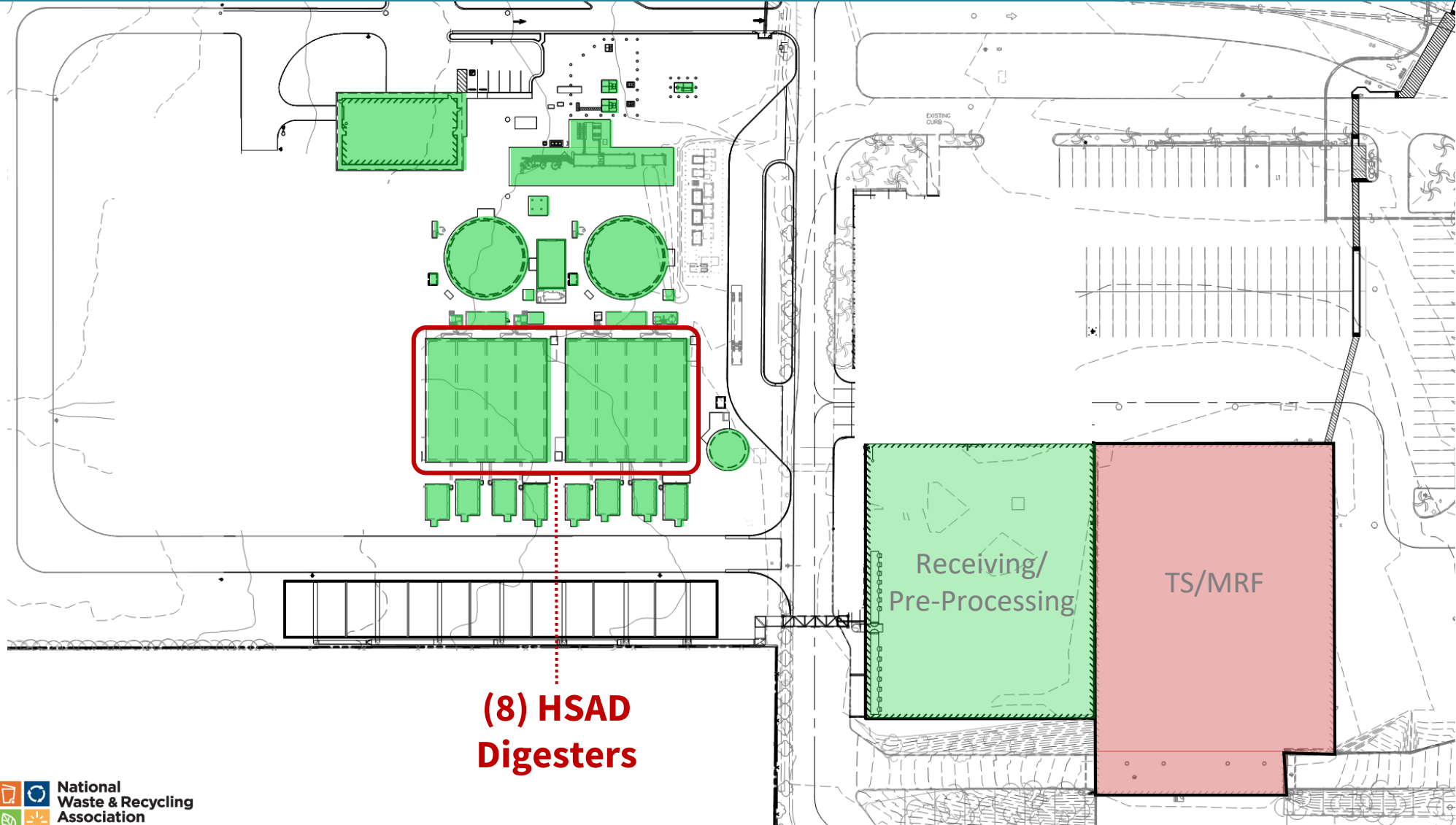
- Location near residential and commercial
- 52.2 ac site
- 56,000 sf buildings
- 5,000 TPD permitted volume



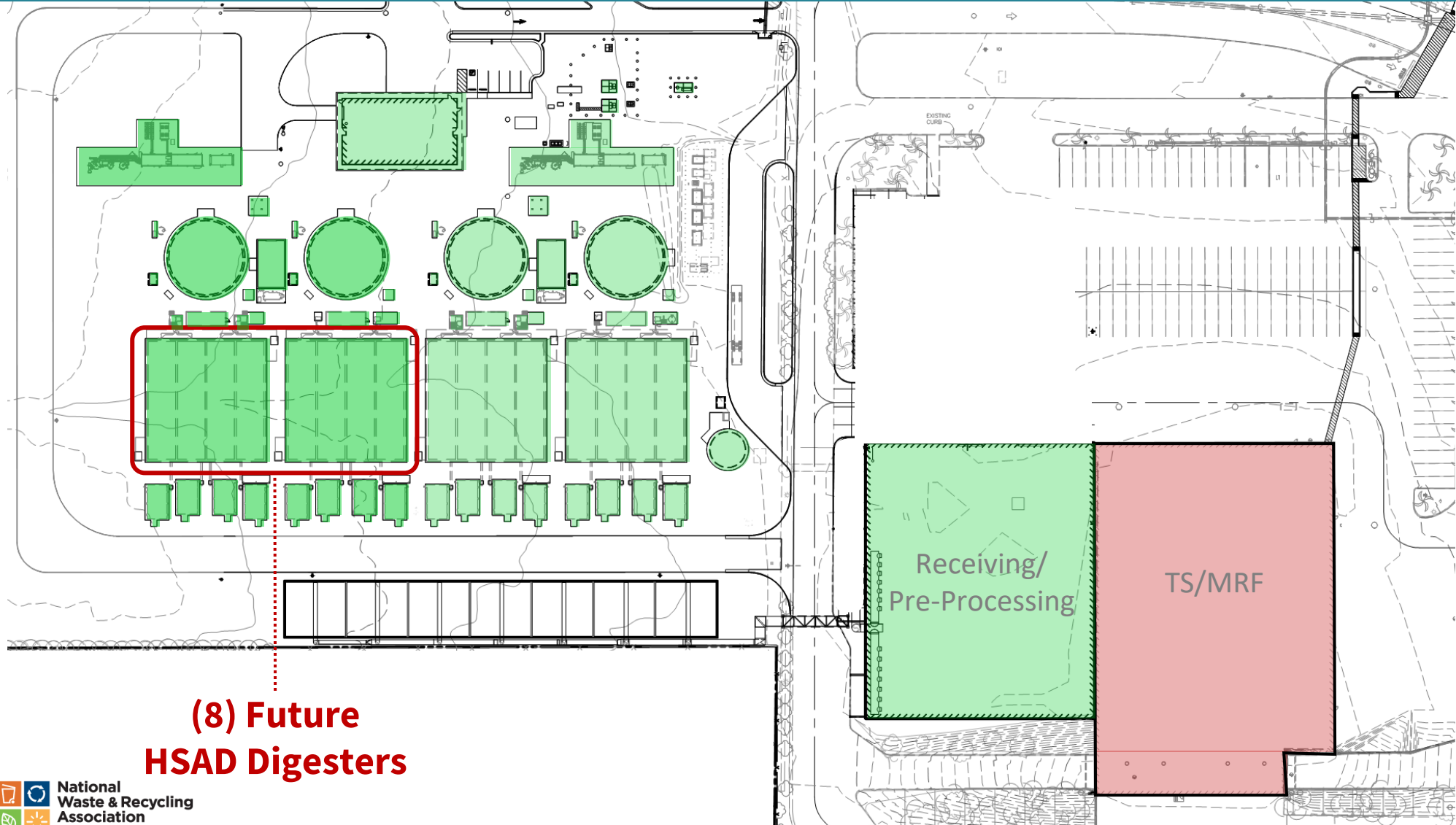
Anaerobic Digestion



Anaerobic Digestion



Anaerobic Digestion

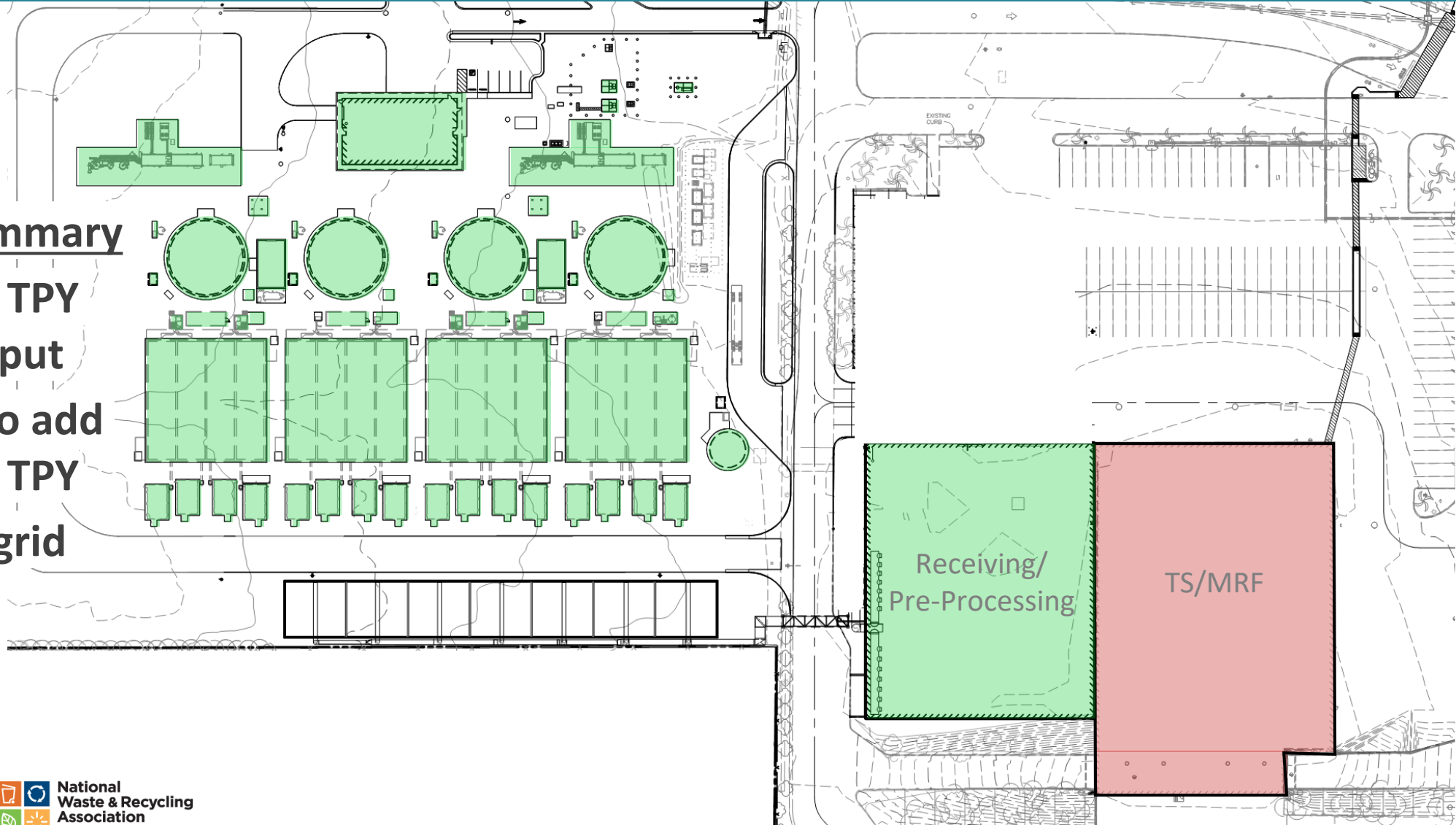


**(8) Future
HSAD Digesters**

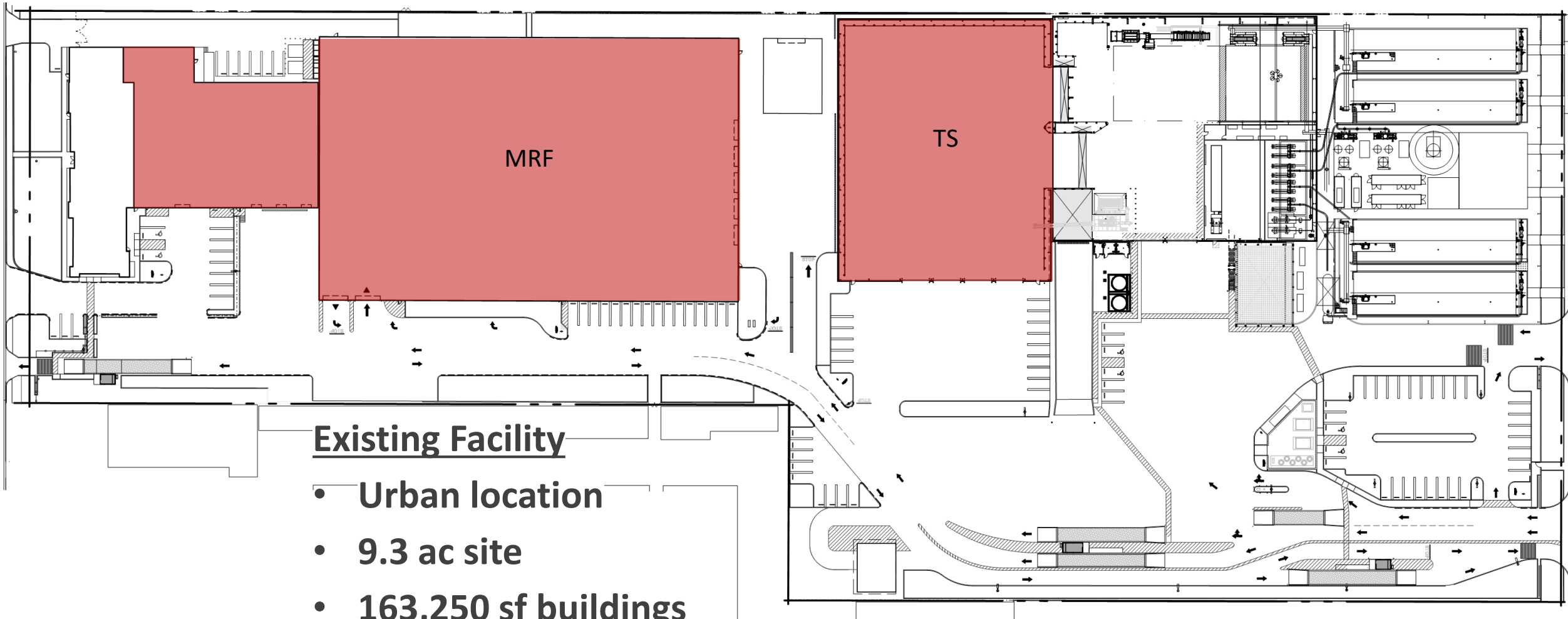
Anaerobic Digestion

Project Summary

- 160,000 TPY throughput
- Ability to add 160,000 TPY
- RNG to grid



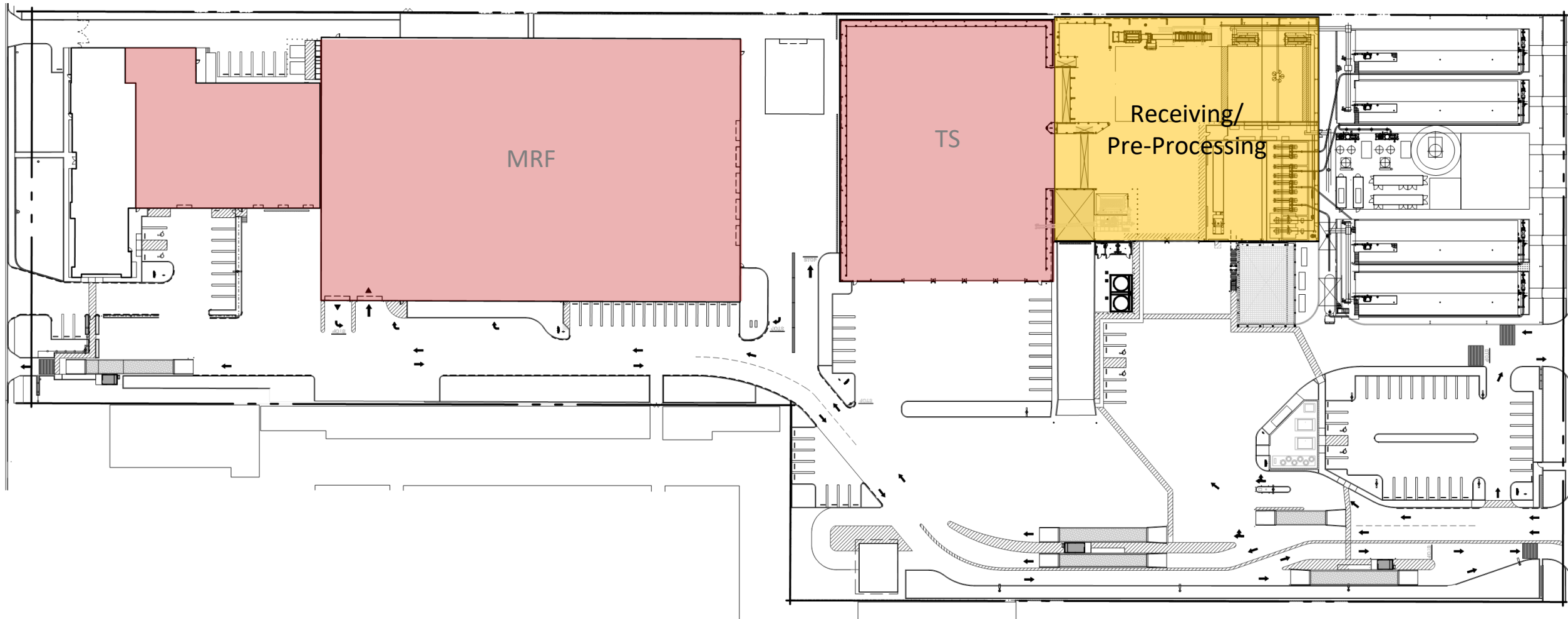
Anaerobic Digestion



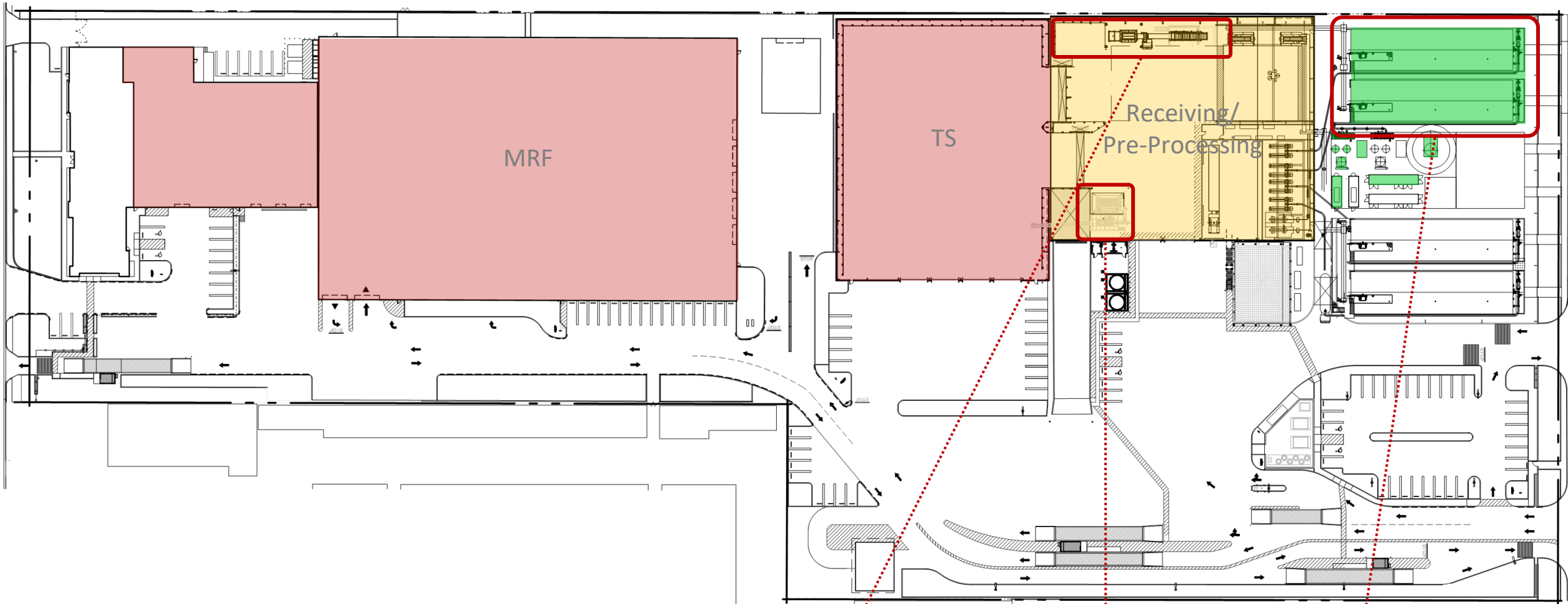
Existing Facility

- **Urban location**
- **9.3 ac site**
- **163,250 sf buildings**
- **3,200 TPD permitted volume**

Anaerobic Digestion

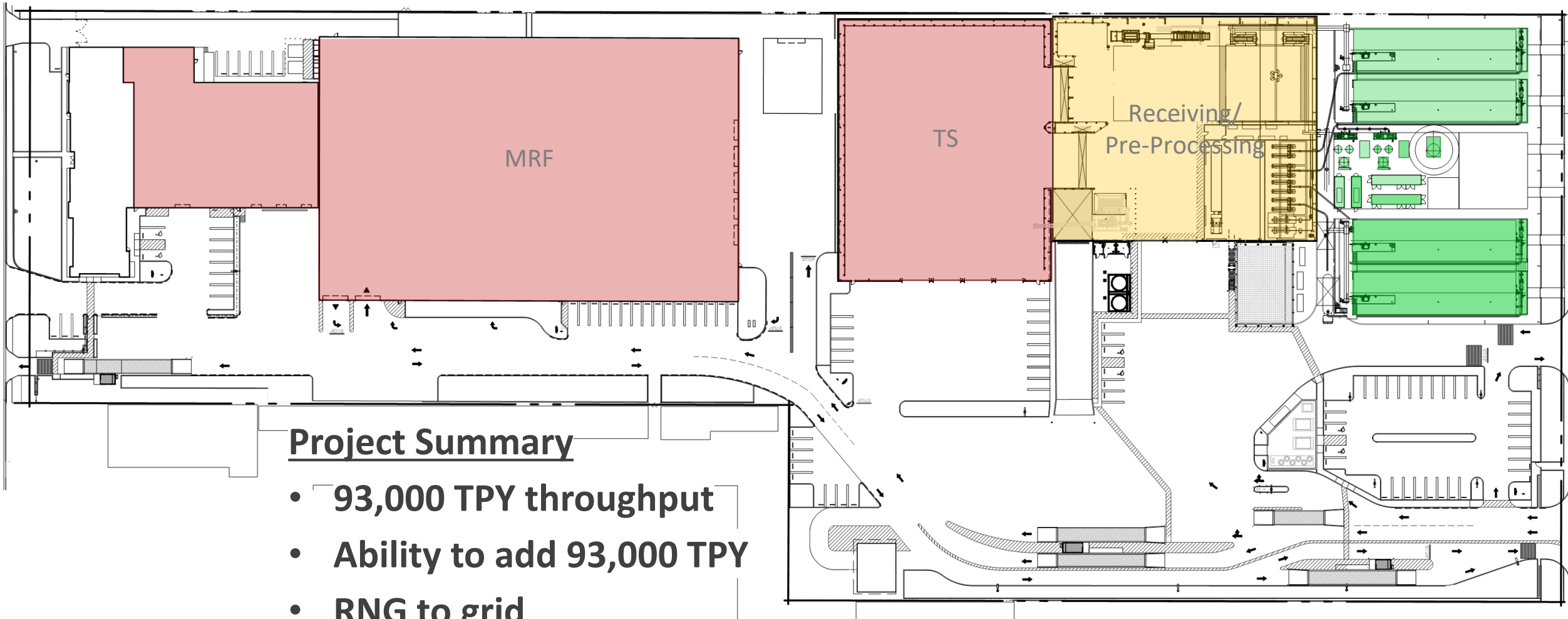


Anaerobic Digestion



GW Pre-processing Smicon Depackager (8) HSAD Digesters

Anaerobic Digestion



Project Summary

- 93,000 TPY throughput
- Ability to add 93,000 TPY
- RNG to grid

Summary

Diversion Capacity

• Food Waste to WWTP	60,000 TPY
• Composting	450,000 TPY
• Anaerobic Digestion	<u>413,000 TPY</u>
Total	763,000 TPY



Organic Waste Diversion – Example Projects



Organics Diversion and Collection