



# City Council Meeting January 21, 2020

## Brookings Landfill Area 3W Construction

# Existing Conditions





# Proposed Construction



# Project Overview

## ► Area 3W Cell Construction

- 5.5 acres
- 150,000+ cubic yards of soil excavation
- New leachate collection sump

## ► Area 1 Partial Final Cover Construction

- 7.5 acres
- Approx. 50,000 cubic yards of soil cover placement

## ► Misc. Construction

- Access roads
- Stormwater ponds, diversion berms, culverts
- Gravel pad over existing sludge dewatering beds

# Project Schedule & Budget

## ► Schedule:

- January 9, 2020 – Advertised for Bidding
- February 4, 2020 – Bids Due
- April/May 2020 – Commence Construction
- September 4, 2020 – Substantial Completion

## ► Budget:

- Approx. \$1.8M

# Cell Construction: Excavation





# Cell Construction: Clay Liner



----- Compact Clay in 6" Lifts w/ a  
Total Liner Thickness of 3-Feet

Moisture/Density Testing -----



----- Smooth Roll Final Lift

# Cell Construction: Leachate Collection

Perforated HDPE Pipe Backfilled  
w/ Coarse Aggregate -----



----- 12" Granular Drainage Layer

Sump w/ Side Slope Riser Pipe -----





# Cell Construction: Leachate Collection



Underground Leachate Storage Tank -----



----- Pump Controls

----- Side Slope Riser Structure



# Closure Construction

## Compacted Clay Liner Placement -----



## ----- Moisture/Density Testing



## Topsoil (6") Placement -----



# Closure Construction (cont'd)



----- Seed & Mulch



Stormwater Berms/Erosion Control -----



----- Riprap Let-Down Structure



# Misc. Construction

Stormwater Culverts



Access Road Construction



Stormwater Pond

# Environmental Protection

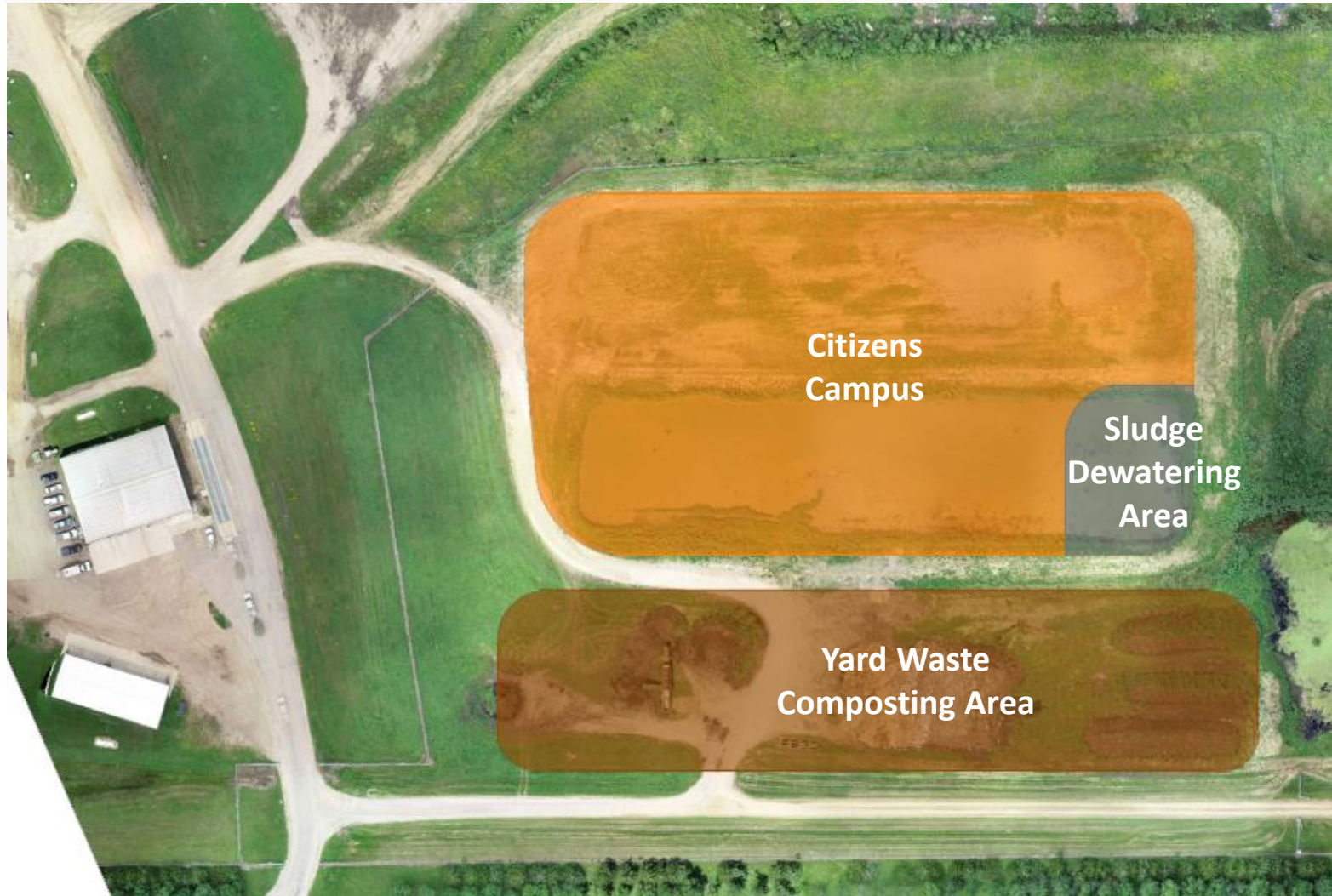
## ► Area 3W Landfill Cell

- Provides capacity for continued economical and environmentally sound disposal of MSW
- Liner and leachate collection system protects the groundwater from leachate contamination

## ► Area 1 Final Cover

- Prevents stormwater infiltration thereby reducing leachate generation
- Provides litter, pest, and odor control

# Citizens Campus





# Contact Information

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