



Information Item:

1-MN-320 Rehabilitation Update



Environment Committee: April 11, 2023

Tim Wedin

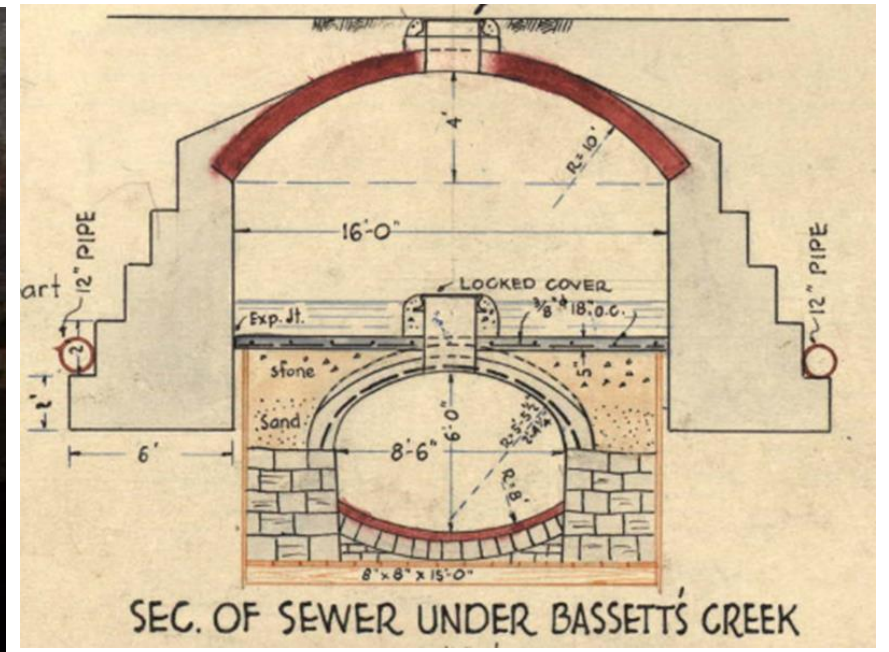
Project Location



Project Background

CCTV inspection shows a failing pipe

- Constructed in late 1800s
- Poor condition
- High maintenance cleaning costs
- Source of odors
- Does not meet current standards



Project Goals

- Eliminate failing pipe
- Increase pipe slopes to self-cleaning grades
- Reduce backwater effect
- Minimize/eliminate sediment build-up to maintain capacity
- Reduce odors



Rehabilitation Options

Draft facility plan includes review of options

Do nothing

- Does not address failing pipe.
- Continues excessive operations and maintenance (O&M) costs.

Lining/rehabilitation of existing pipe

- Strengthens failing pipe.
- Does not address problems related to excessive O&M costs.

Realignment and construction of a lift station

- Removes failing pipe.
- Addresses pipe slope that causes excessive O&M costs.

Lift Station Requirements

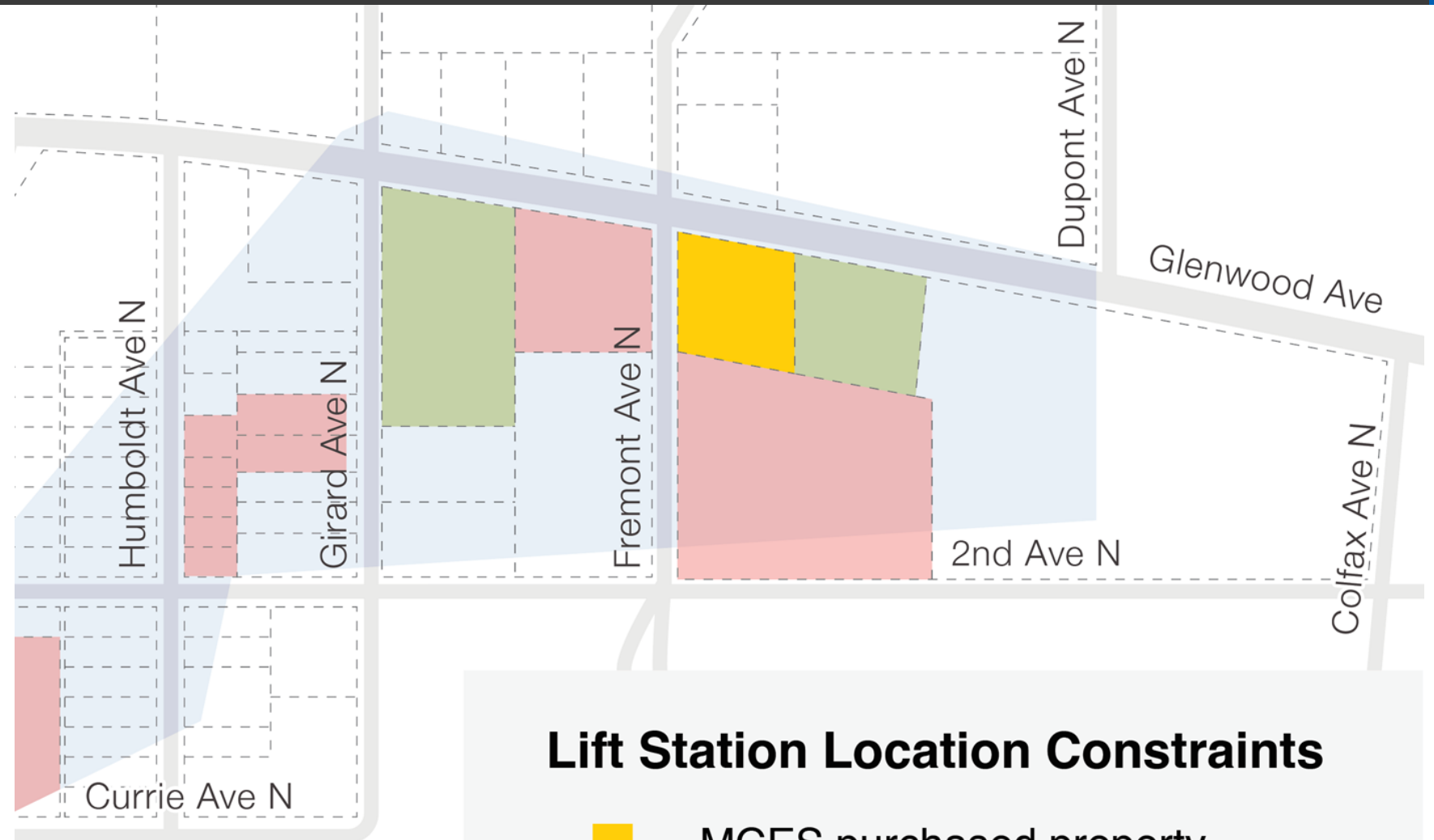


Lift station location constraints

- Outside flood plain
- South of Glenwood Avenue
- Below elevation 820
- West of Dupont Avenue
- Outside recent or planned redevelopment
- Does not impact existing residence

Lift Station Selected Location

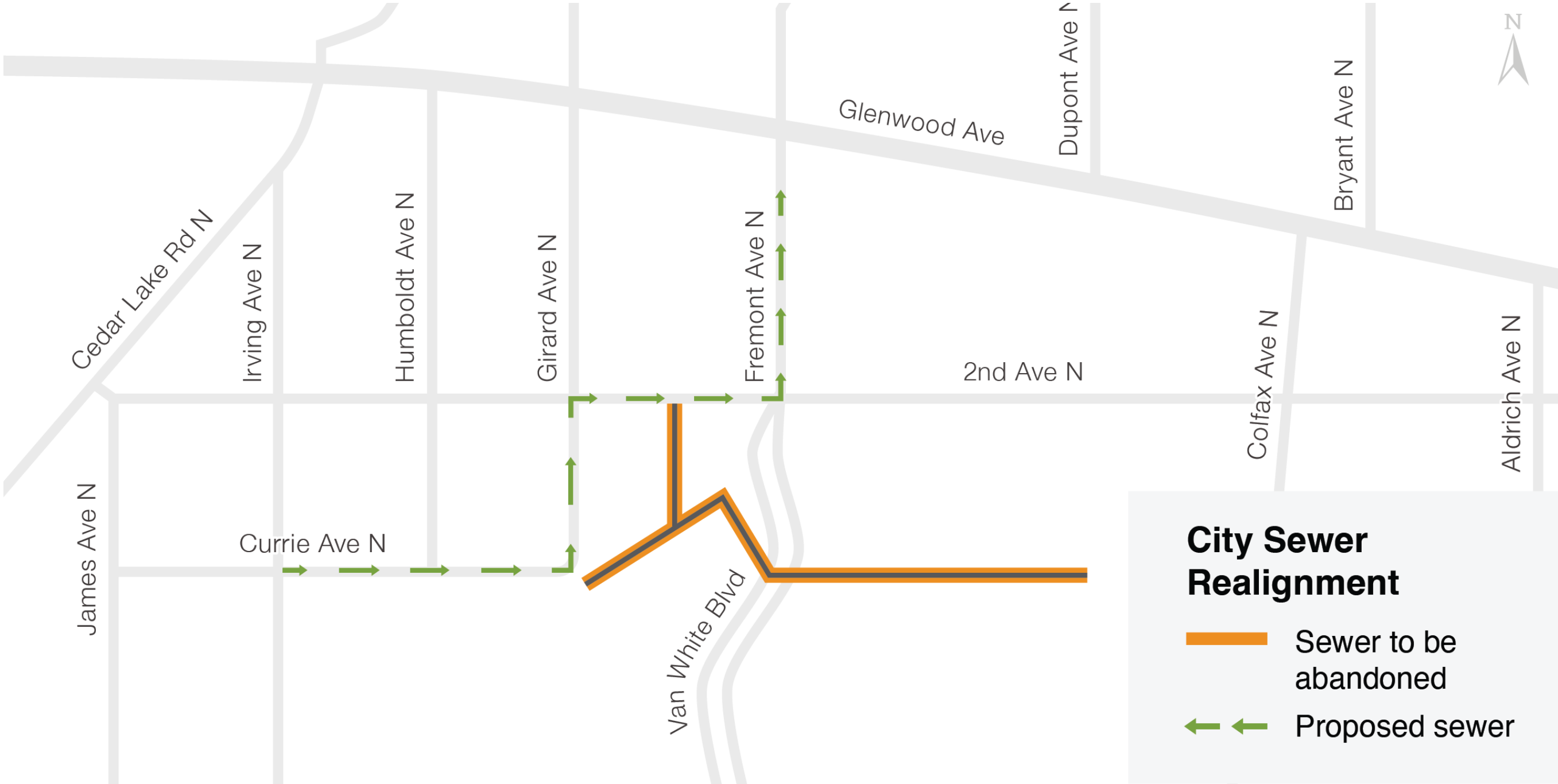
- One of the preferred parcels
- Not adjacent to a single-family home
- Parcel provides adequate building setbacks from neighboring properties
- Willing seller



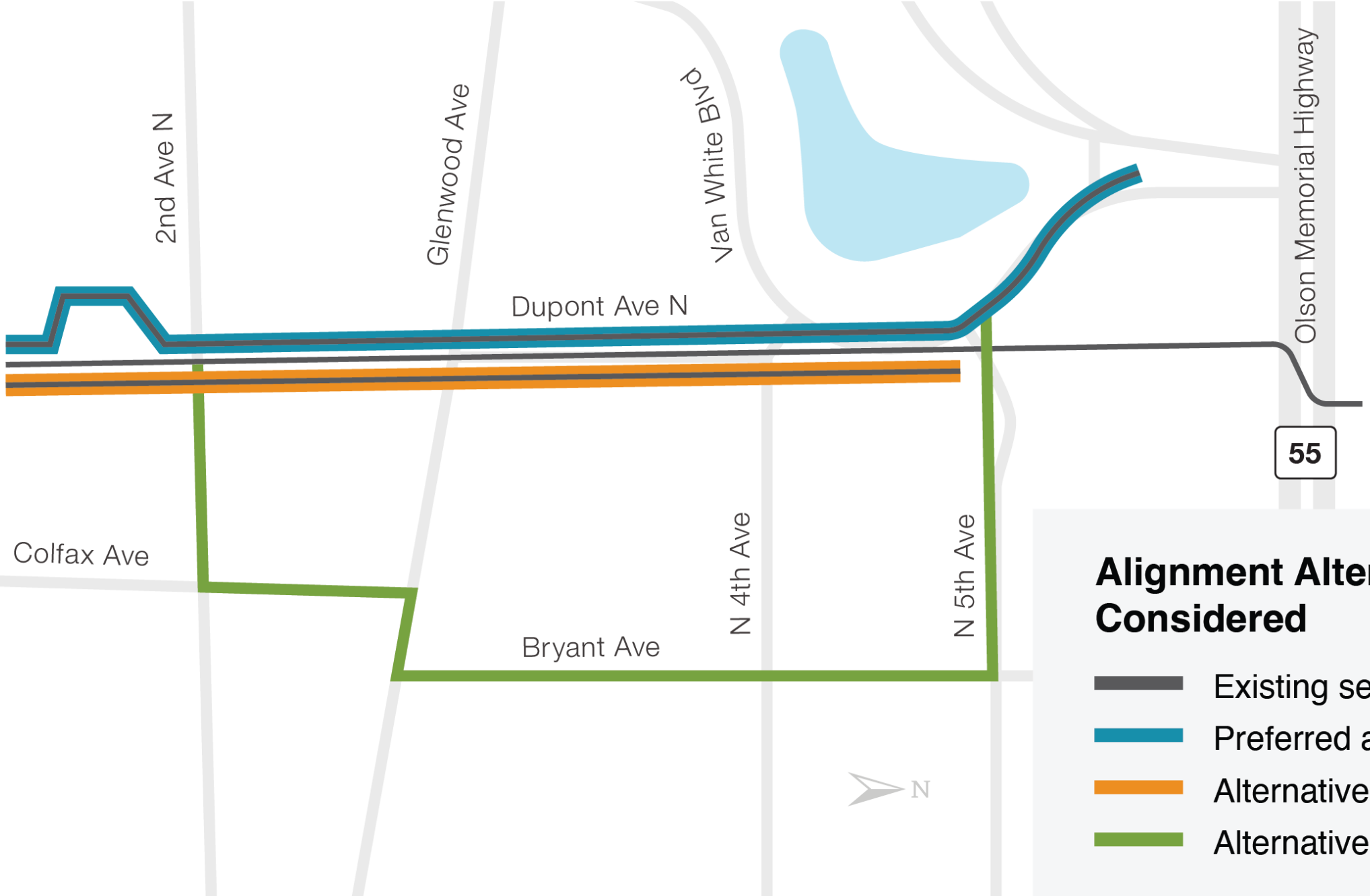
Lift Station Location Constraints

- MCES purchased property
- Preferred locations
- Recent or planned development
- Search area

City Sewer Realignment



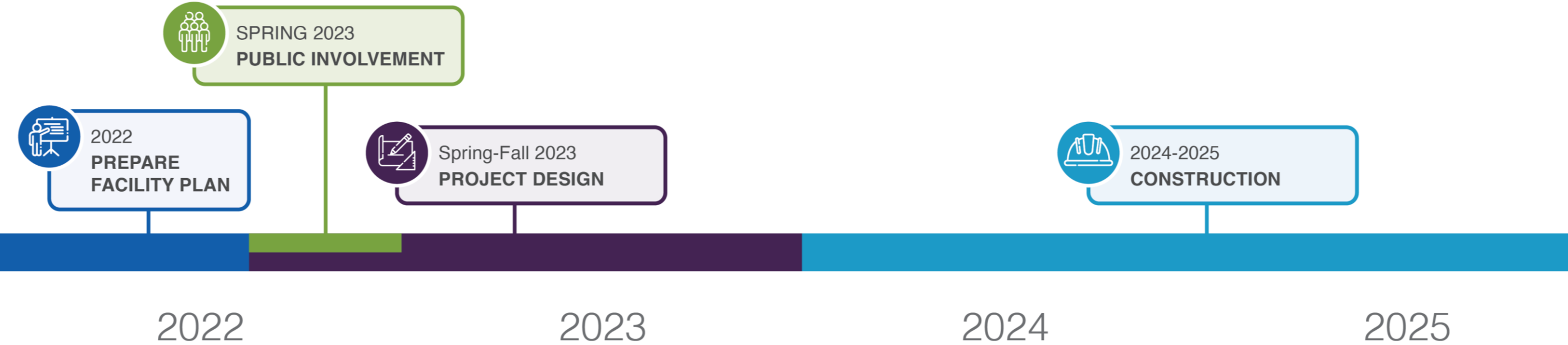
DuPont Sewer Replacement



Alignment Alternatives Considered

- Existing sewer
- Preferred alternative
- Alternative option B
- Alternative option C

Project Timeline





Questions

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