



Business Item 2024-229

Ratification of Procurement After the Fact for Service Water Hydrant Repair and City Water Main



Environment Committee: October 22, 2024

John Tierney



Contents

Introduction	1
Contents	2
Scope of Services	3
Supporting Content	4
Questions	5

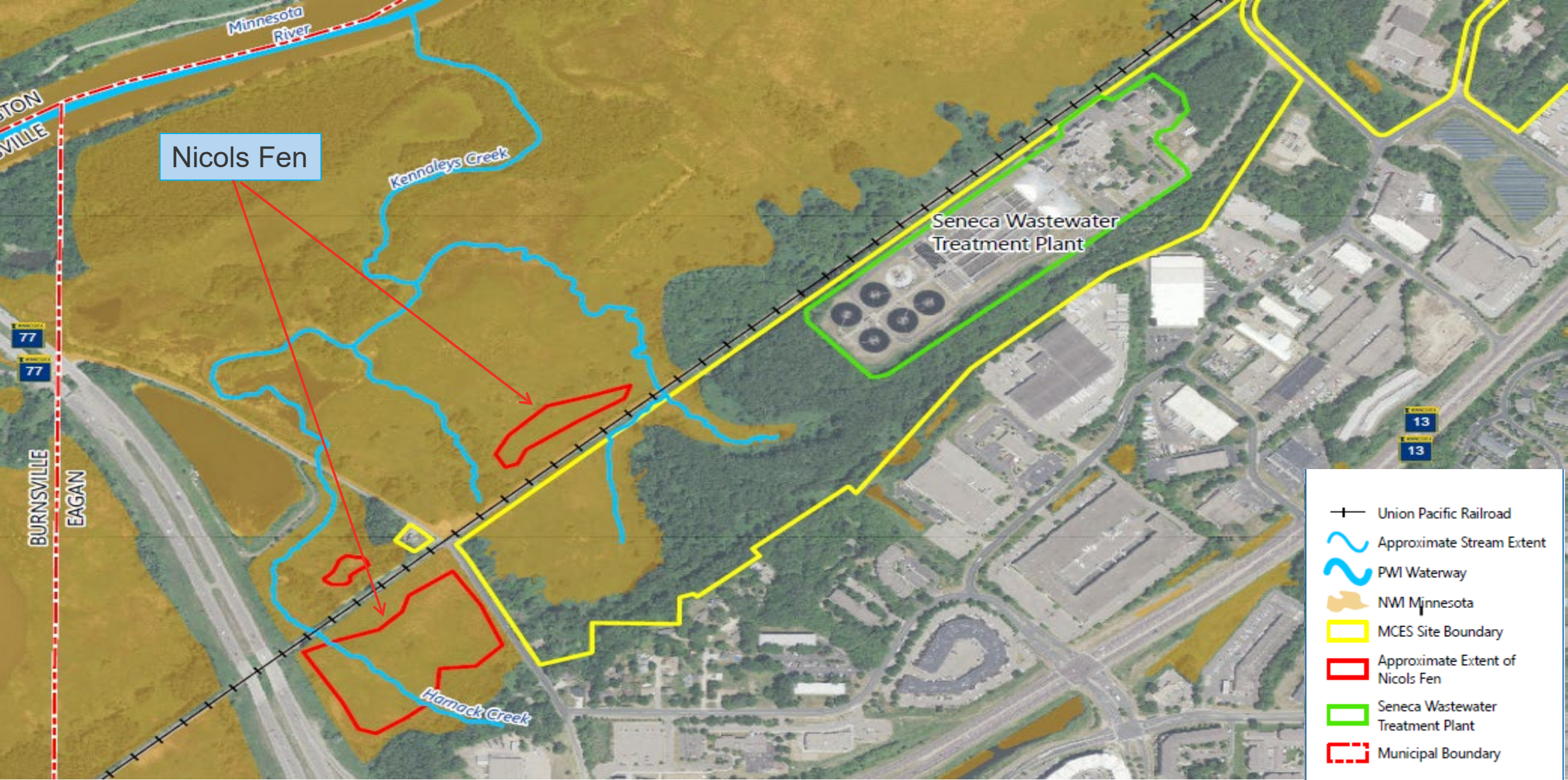
Scope of Services

- Infrastructure concern identified, investigated, and determined needed repair
- Original quote for excavation and repairing 3” service water hydrant \$6300
- Re-designed system due to unsupported original materials and parts then sourced
- Applied for Literature Review to be conducted of excavation site
- Purchase Order was issued to contractor for time and material to make repairs
- After review, contractor mobilized, work started to repair out of service water hydrant

Scope Continued

- Ground water infiltrated excavation site and additional equipment was required
- Coordination efforts with Department of Natural Resources to use plant groundwater pumps for dewatering excavation site
- Discovered City Water main in same vicinity cracked and leaking at tunnel wall
- A Goods and Services Authorization for Sole Source was submitted and approved for \$75,000 on February 28th, 2024
- Larger excavation equipment and additional work was required to unearth and make all necessary repairs
- All repairs were made, and work site and services restored to normal, final invoice filed

Nicols Fen Ecosystem in Red



Utilities Assessment & Excavation



Repair Scope:

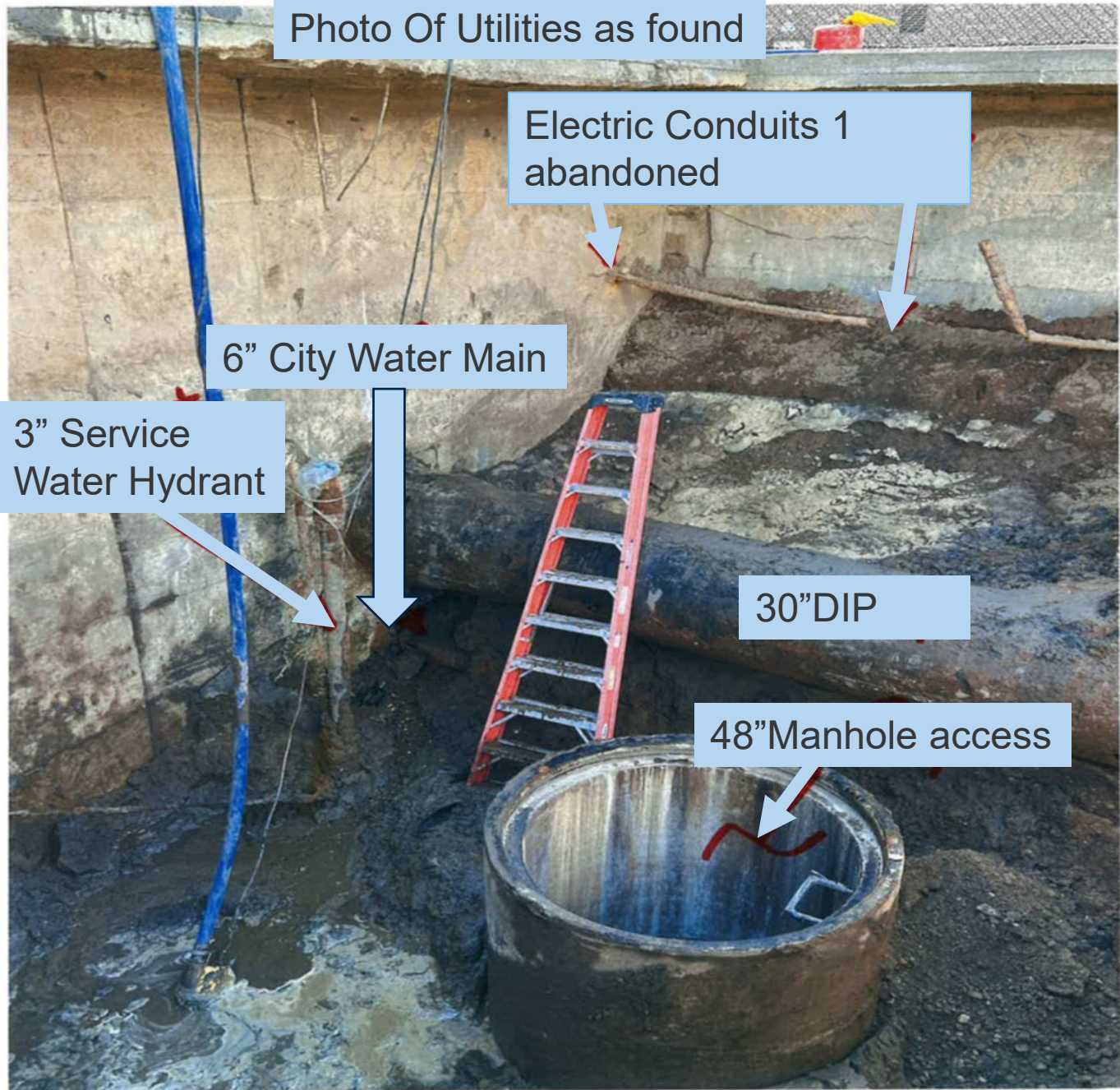
- Locates were scheduled and only identified the 3" yard hydrant line. Locates did not detect 30" (Ductile Iron Pipe) DIP, 2 – 2" conduits running parallel under sidewalk, or the 6" city water main located directly under the 30" DIP
- Once excavation started, water filled the hole almost immediately
- Large pumps were supplied by the contractor but were not able to keep up with the flow of water. At this point it was decided to utilize plant groundwater pumps to pump water from the site
- The plant pumps were able to pump down the excavation site and the utilities were uncovered and discovered that the city water main was cracked and rotted at the tank wall

Excavation and Repairs



- As the excavation deepened, it also grew in width to prevent engulfment of crew. Safety was a high priority on this job as wet soil continued to collapse in on the hole
- Larger excavation equipment was needed to reach the depth of where the repairs were needed to be made
- A 48" diameter manhole access needed to be unstacked for the backhoe to reach the city water pipe
- For future excavations, utilities tape was laid over piping at required heights and plant drawing are being updated

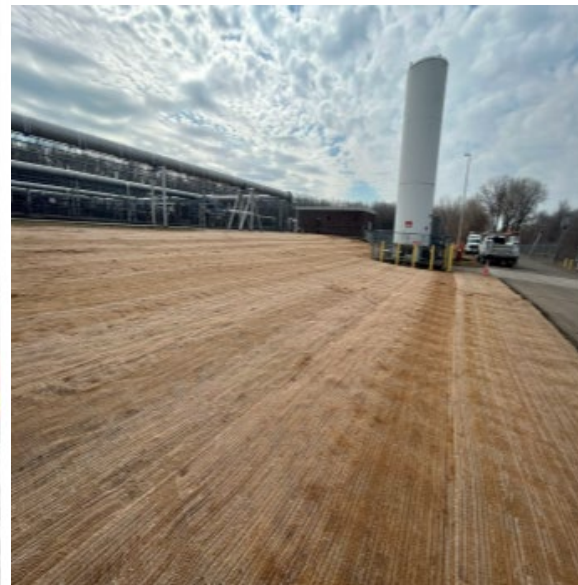
Identified all utilities in this area



Infrastructure repaired and grounds restored



Additional Supporting Photos



Proposed Action

That the Metropolitan Council ratify the Procurement After the Fact attached to the business item for the repairs to the Seneca Plant Service Water Hydrant and six-inch city water main.



Questions

John Tierney

Mechanical Maintenance Manager, Environmental Services

651-602-8307

john.tierney@metc.state.mn.us

