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Riverwood Neighborhood Meeting
Project #FM-19-A

August 27, 2019
5:30 PM

Overview

- Fargo-Moorhead Diversion Project Update
- In-Town Projects
- Riverwood Neighborhood
- Project Timeline
- Property Owner Comment
- Questions

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FM Diversion

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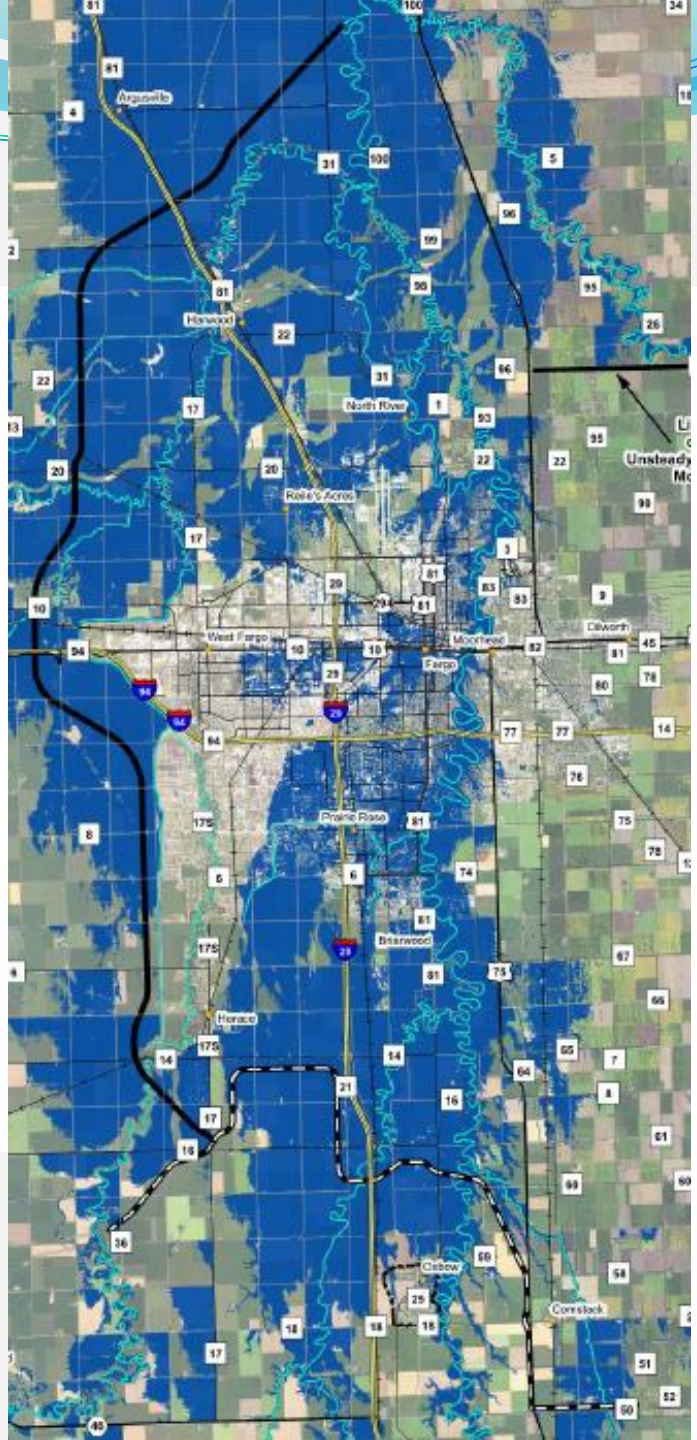
Diversion Project "Plan B"

- 100-year Flood Protection Minimum
  - Some features designed to PMF (Probable Maximum Flood) as required by State and Federal Dam Safety Requirements
- Diversion Channel
- Southern Embankment and Control Structures
- Temporary Staging of Flood Waters Upstream to Prevent Downstream Impacts
- In-town Levees
  - Additional levees needed to safely pass RS 37-feet during 100yr flood.

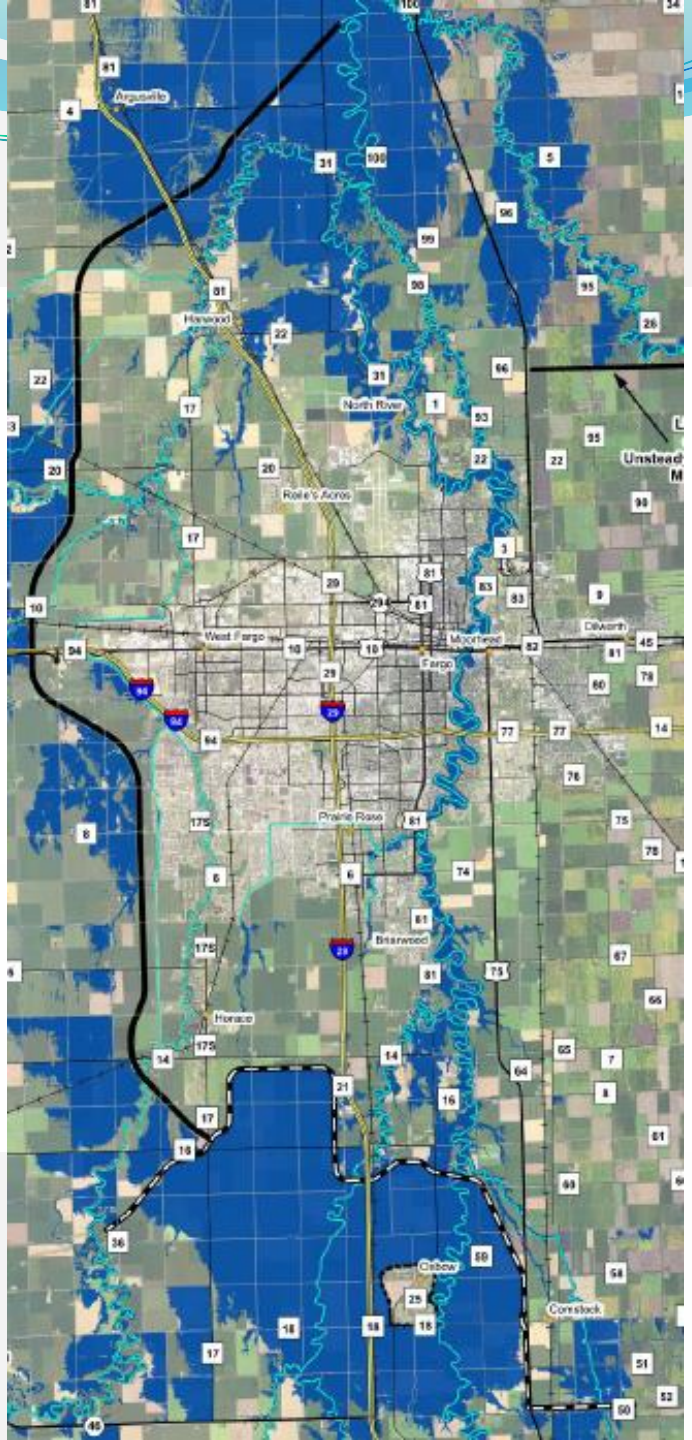
Existing Conditions

- 100-year floodplain shown in blue



With Project

- 100-year floodplain with project shown in blue
- Project also gives the ability to defend against a 500-year flood
  - Would require 18-20 miles of temporary clay and sandbag levees



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In-Town Projects

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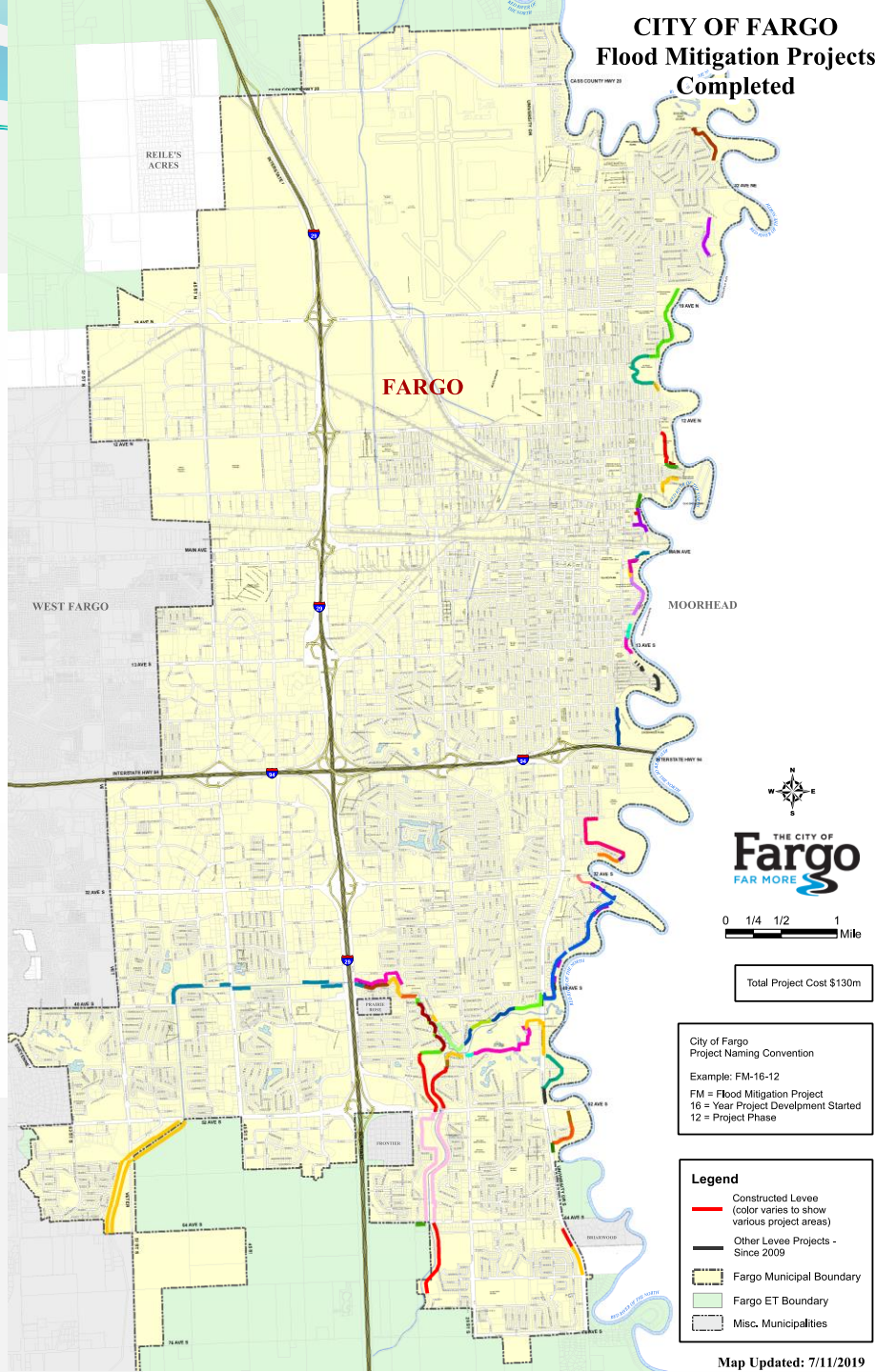
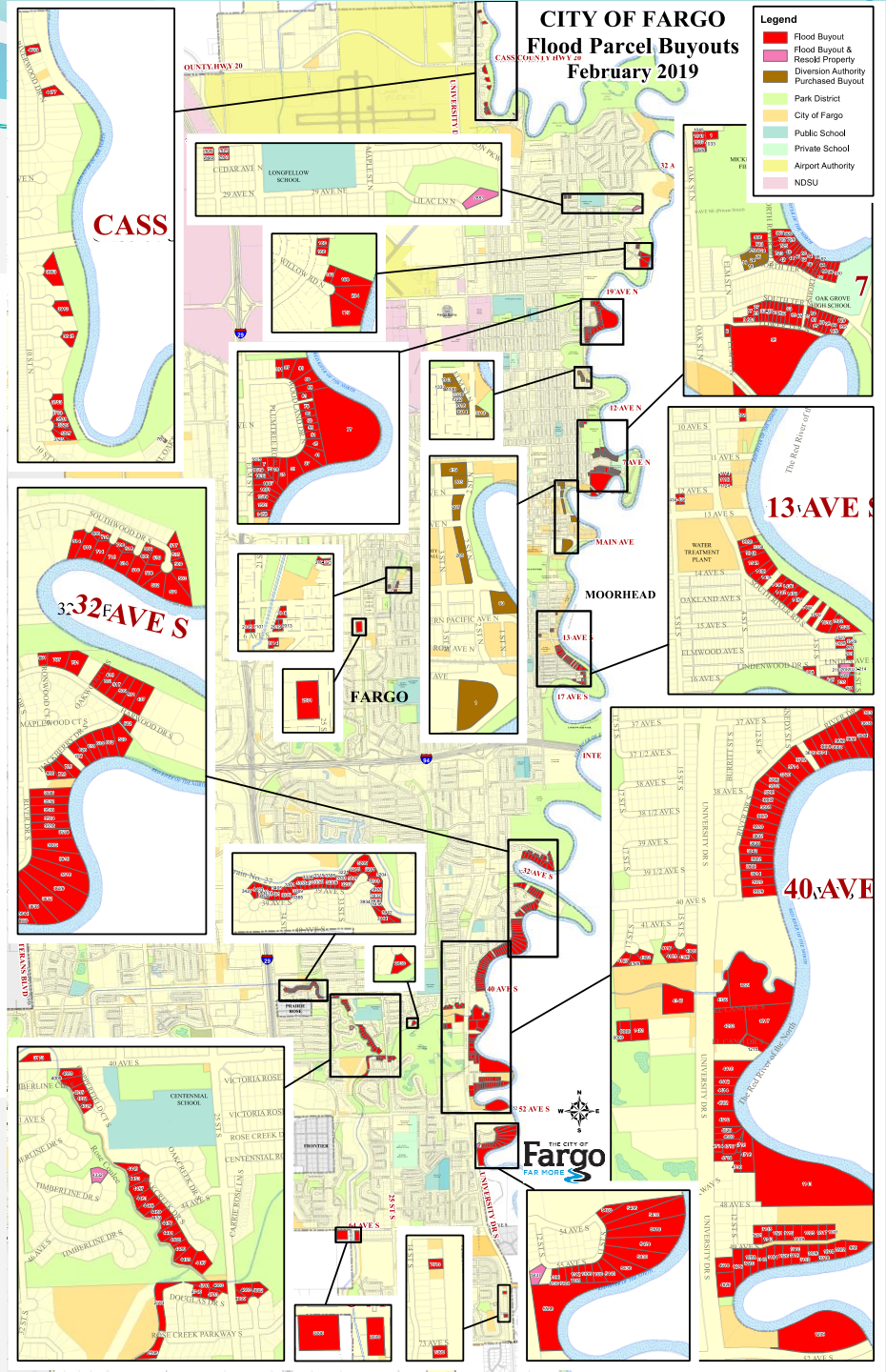
Projects Completed Since 2009

- Constructed over 21 miles
  - *47 miles of emergency levees constructed by the City in 2009
- Project Cost ≈ $280 million
- Reduces required sandbags by approximately 5 million
  - Needed over 6 million in 2009
- All completed projects are built to proper elevations to accommodate Plan B's proposed 37' flow thru town



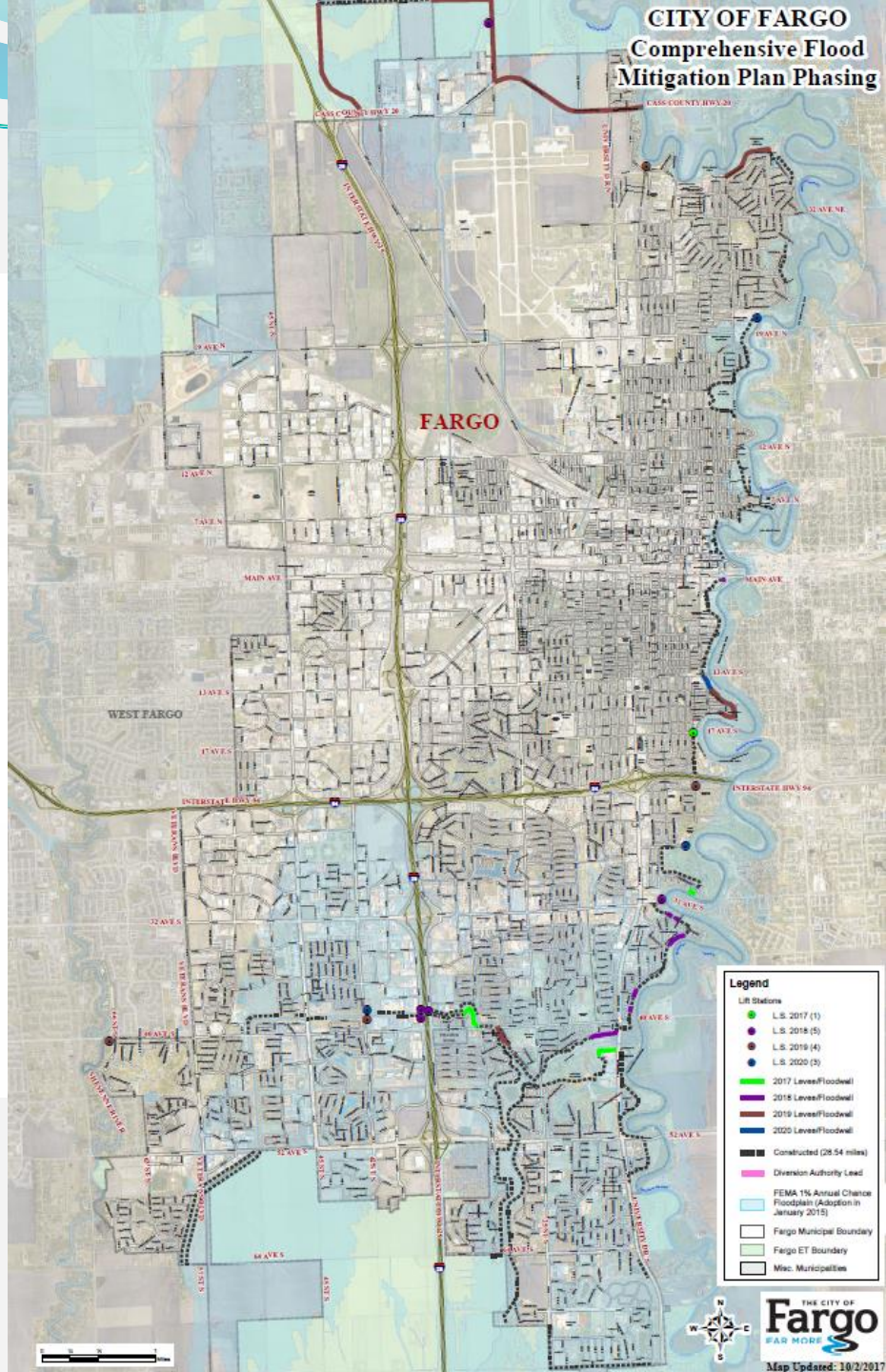
PROJECT ACQUISITIONS SINCE 2009

- 245 Properties Purchased
  - Over 380 since 1990
- At cost of over $100 million
- Approximately 90 private property easement purchased



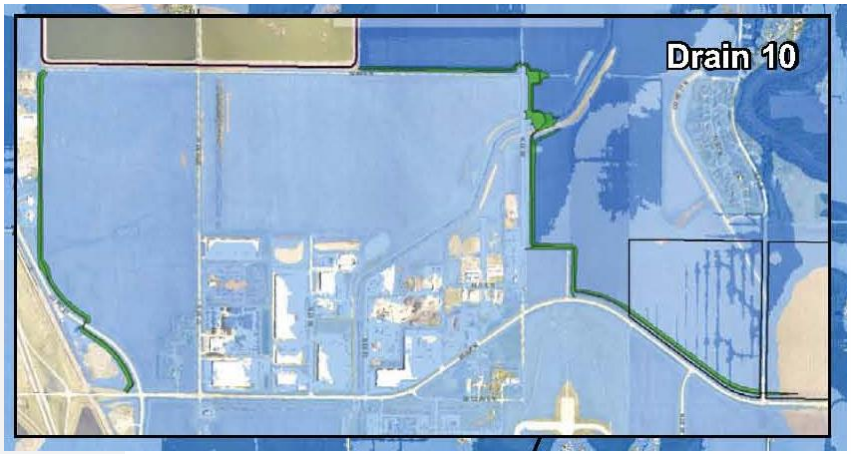
2019 PROJECTS UNDER CONSTRUCTION

- Four Projects
  - Rosewood Addition – Final Phase
  - Oakcreek & Copperfield Ct – Final Phase
  - Belmont Park – 2nd Phase
  - 2nd Street S & Main Ave – Final Phase
- Total Length ≈ 0.75 mile
- Total Construction Cost ≈ $15.7M



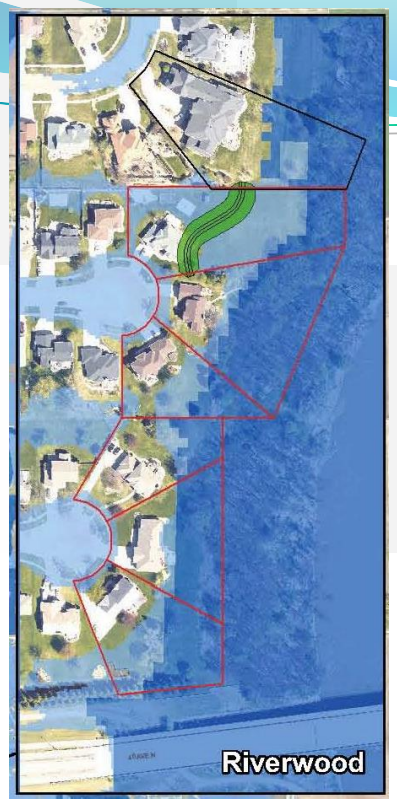
Remaining projects

- 2016 Revised Comprehensive Plan Projects
  - Harwood, Hackberry & River Drives
    - 3 Acquisitions Remain
    - Levee Construction
  - Belmont Park
    - 3 Acquisitions Remain
    - Levee & Floodwall Construction
    - Water Intake Building Modifications
  - Drain 10/Airport Area
    - Levee Construction
    - Storm Sewer Lift Station Replacement
  - Storm Sewer Lift Stations Improvements



REMAINING PROJECTS

- Plan B Additional In-Town Projects
  - Riverwood Addition
    - Potential Acquisitions
    - Levee Construction
    - Storm Sewer Lift Station Replacement
  - Royal Oaks
    - Potential Acquisitions
    - Levee Construction
  - Woodcrest
    - Potential Acquisitions
    - Levee Construction
    - Storm Sewer Lift Station Replacement
  - Elm Circle
    - Potential Acquisitions
    - Levee Construction
  - Oak Grove
    - Potential Acquisitions
    - Levee Construction
  - Storm Sewer Lift Stations Improvements



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PROJECT OVERVIEW

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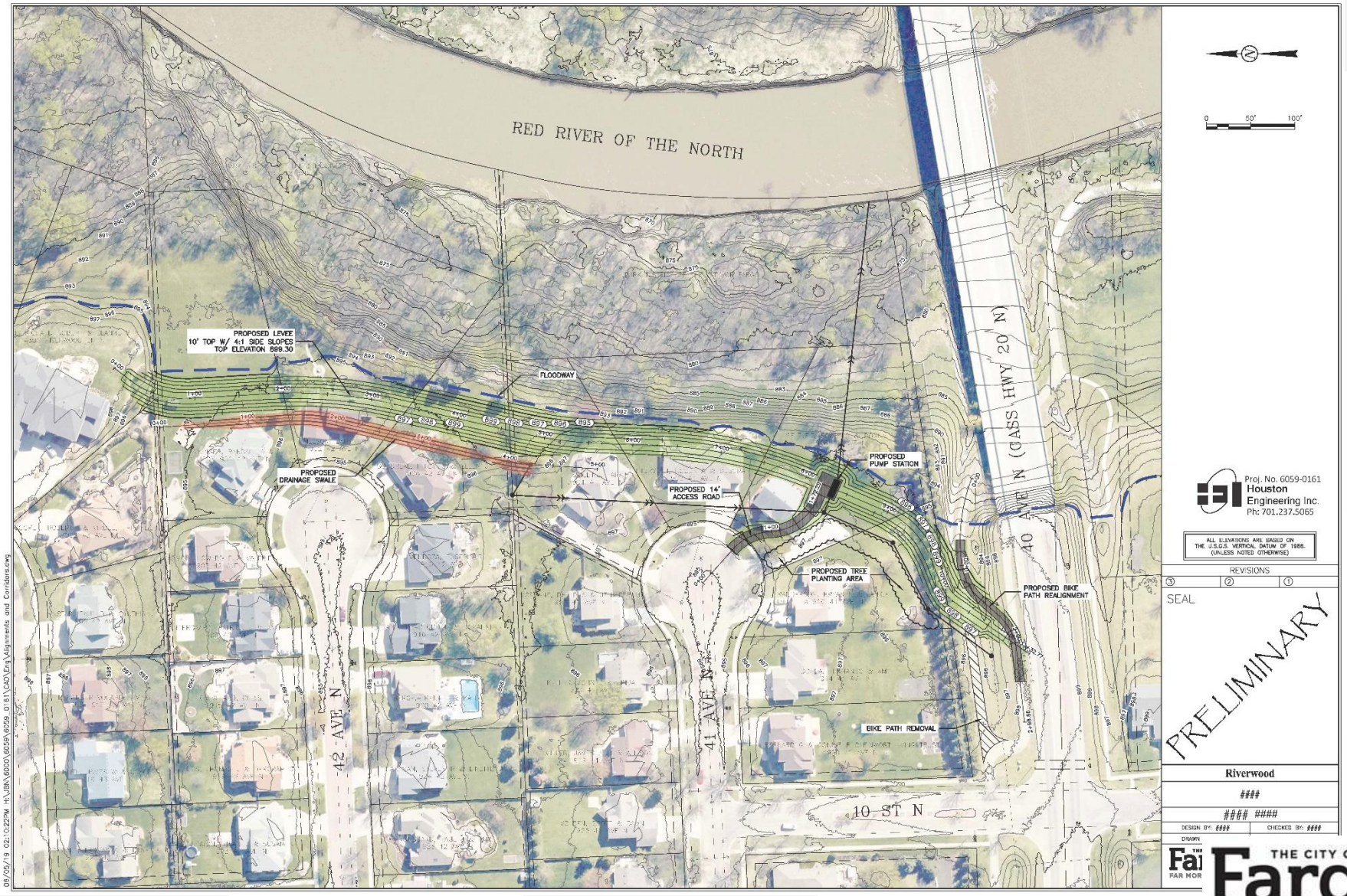

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Path Forward

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PROJECT TIMELINE

- **Public Informational Meeting (tonight)**
  - **Public Comment Period (Until 9/6)**
- September – Soil Borings
- Revised Preliminary Project Design – Public Comments
- 2ND Neighborhood Meeting – December 2019
- Present to City Commission for Alignment Approval (January 2020)
- Easement / Acquisition (Winter/Spring 2020)
- ND State Water Commission Review (Spring/Summer 2020)
- Bidding of Construction Project (TBD)
- Anticipated Construction Begins (TBD)
- Substantial Construction Completion (TBD)
- Final Construction Completion (TBD)

Comment Form

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Riverwood Area Flood Risk Management Project

August 27, 2019 Informational Meeting

Landowner Project Opinion:

☐ **Yes** ☐ **No - I support the preliminary plan for providing improved flood risk management for the Riverwood Area.**

Additional Comments:

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Please Return by September 6, 2019 to:

Randy Engelstad
Houston Engineering, Inc.
1401 21st Avenue North
Fargo, ND 58102
Phone: (701) 499-2087
Fax: (701) 237-5101
Rengelstad@Houstoneng.com

Name: _____

Address: _____

Date: _____

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SOIL BORINGS

RED RIVER OF THE NORTH

PROPOSED LEVEE
10' TOP W/ 4:1 SIDE SLOPES
TOP ELEVATION 899.30

FLOODWAY

PROPOSED DRAINAGE SWALE

PROPOSED PUMP STATION

PROPOSED 14' ACCESS ROAD

PROPOSED TREE PLANTING AREA

PROPOSED BIKE PATH REALIGNMENT

BIKE PATH REMOVAL

42 AVE N

41 AVE N

40 AVE N (OLD HWY 20 N)

10 ST N

Proj. No. 6059-0161
Houston Engineering Inc.
Ph: 701.237.5065

ALL ELEVATIONS ARE BASED ON THE U.S.G.S. VERTICAL DATUM OF 1988. (UNLESS NOTED OTHERWISE)

REVISIONS

SEAL

PRELIMINARY

Riverwood
CITY OF Fargo

06/05/19 02:10:22PM H:\JBR\6000\6059\6059_0161\CAD\Eng\Alignments and Corridors.dwg

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Questions

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