GMU West Campus Lightning Detection and Notification System

Lightning Detection

- Lighting and severe weather is a known threat
- Some areas of Mason are more vulnerable to severe weather:
  - Students, athletes, and visitors on West Campus
  - Individuals with limited/no access to Mason Alert
  - West Campus parking/shuttle areas
- Lighting policies required by NCAA regulations
- Protects spectators and students
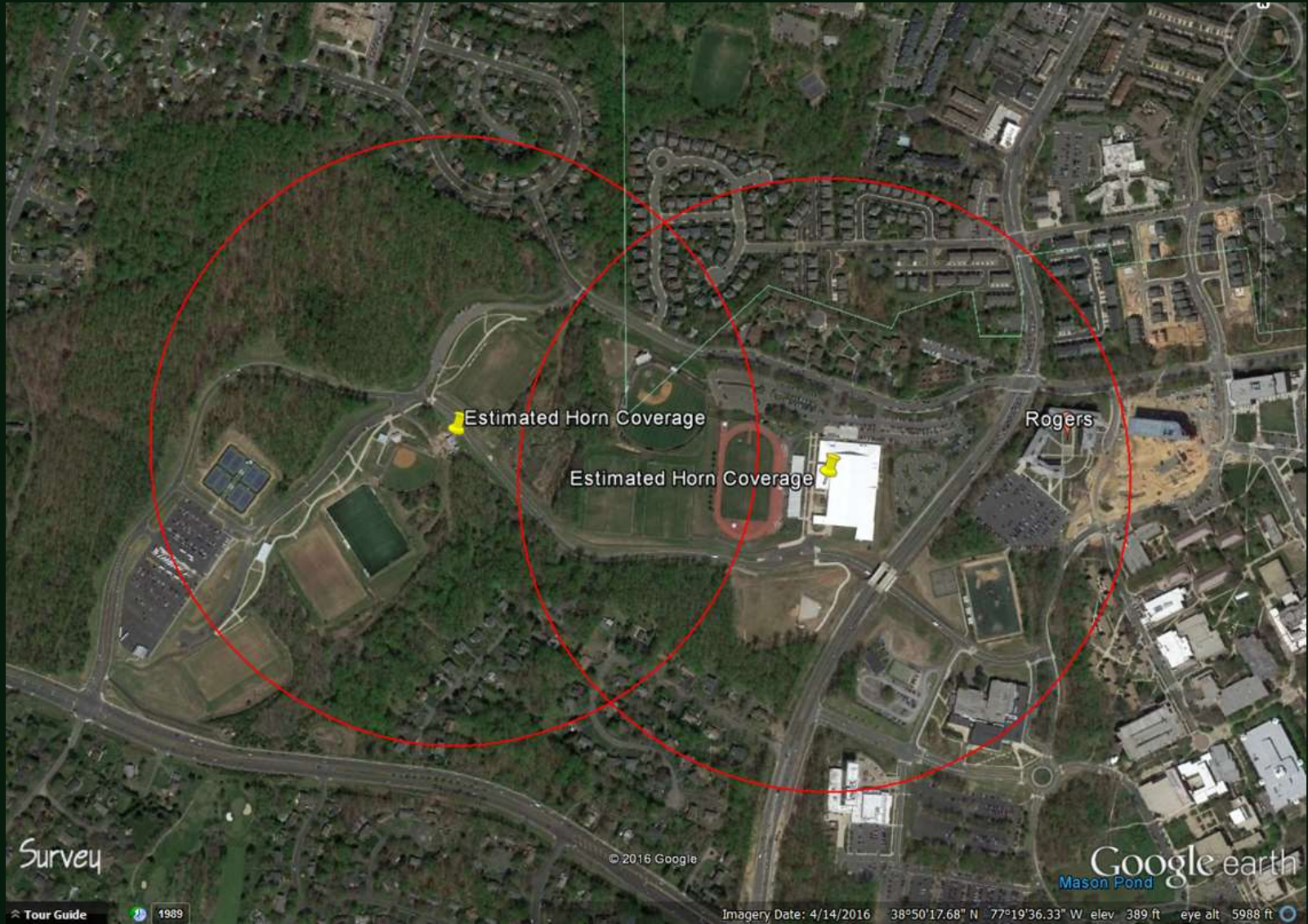
NCAA Requirements

- Develop a lightning safety plan for each outdoor venue
- Designate a person to monitor threatening weather and make notifications
- Monitor local weather reports daily before any practice or event.
- Be informed of National Weather Service (NWS) issued thunderstorm watches or warnings
- Know where the closest "safer structure or locations" for each playing area
- Lightning awareness should be heightened at the first flash of lightning, clap of thunder, and/or other signs

Solution

- Earth Networks Total Lightning Network®

- Stand alone system limited points of failure

- Automated real-time lightning detection
  - Uses lighting sensors throughout the world
  - Custom alert ranges (e.g. 5-15 miles)
  - Text message notification to key personnel
  - Software offers customization and monitoring

- Reduces warning time and human error

WeatherBug®
by Earth Networks℠

Proposed Installation Locations

Audible and Visual Warning

- Alert Tone and Strobe Light Warning
    - Tone for 15 seconds when lighting is within range
    - 3 x 5 second tone bursts at 30 minute all clear
    - No audible tone between alerts – strobes only

Questions

- System can:
  - Be programed to run during specific hours/days
  - Conform to local noise ordinances
  - Be turned off when not needed
- System cannot:
  - Be turned down
  - Be focused in a specific direction
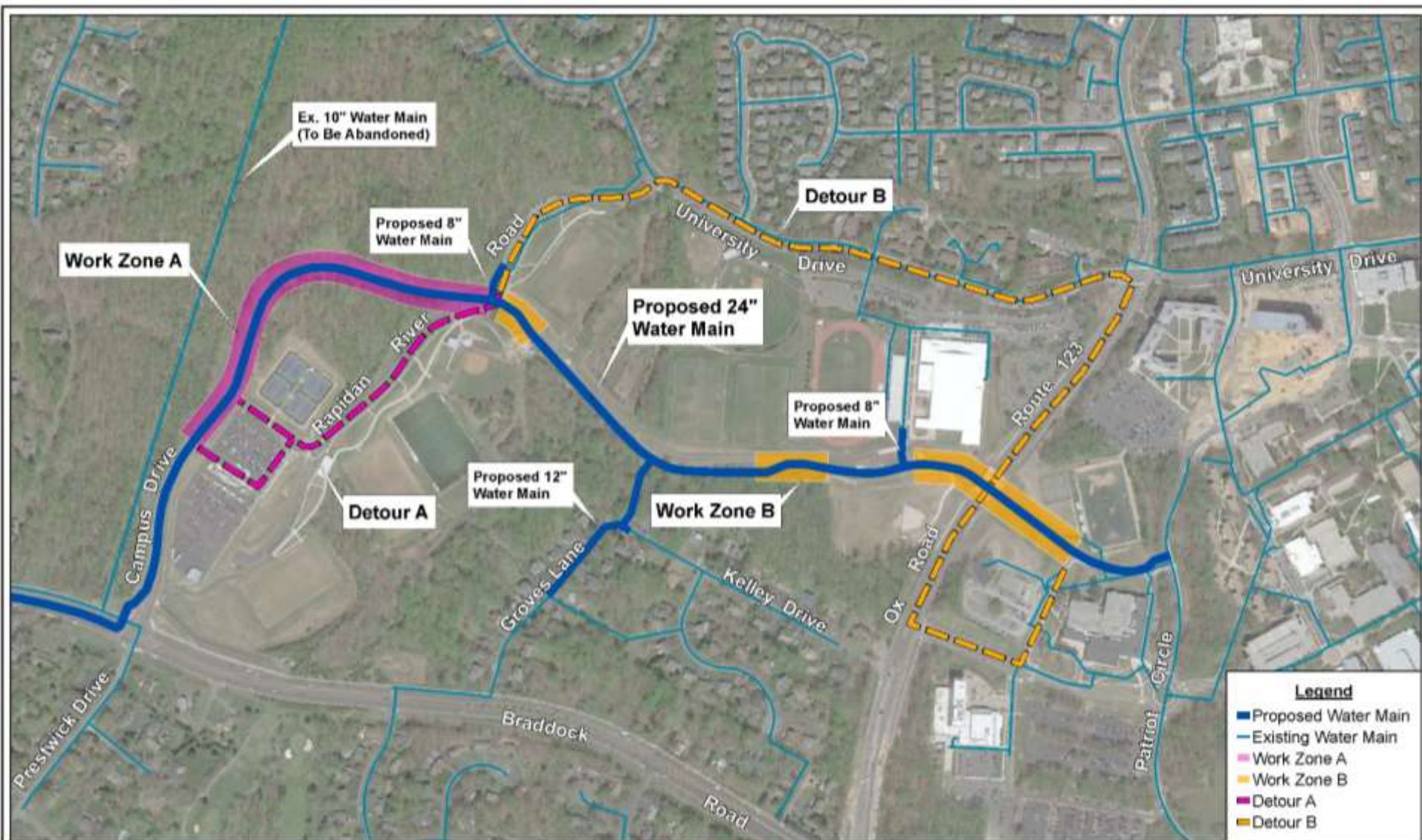 - Provide audible voice messages

Maryland Soccerplex

Bucknell News Report

Braddock Road Transmission Main – Phase I

Ex. 10" Water Main
(To Be Abandoned)

Proposed 8"
Water Main

Detour B

Work Zone A

Proposed 24"
Water Main

Proposed 8"
Water Main

Proposed 12"
Water Main

Detour A

Work Zone B

Legend

■ Proposed Water Main
— Existing Water Main
■ Work Zone A
■ Work Zone B
■ Detour A
■ Detour B

Fairfax Water
Braddock Road Transmission Main - Phase I
Maintenance of Traffic Alternatives

1 inch = 400 feet

May 2, 2017