

George Mason University  
**Land and Building Committee**

June 20, 2017  
1:30 to 3:00 pm

## Agenda

- Previous Meeting Notes
- Utility Infrastructure Project:  
**Review & Approval**
  - Perkins + Will
- West Campus Lightning  
Protection: **Review & Approval**
- West Campus Charrette Update
- Housing Demand Study Update
- Braddock Road Transmission  
Main Update
  
- Future Topics
  - Robinson Review
  - West Campus Charrette - Final
  - Housing Demand Study - Final
  - Pavement Graphics
  
- Meeting Schedule
  - August 15, 2017 (Proposed)



Past Meeting: May 16, 2017

1) Robinson Schematic Design – Reviewed & Approved

## Utility Infrastructure Project – Review & Approval

- Perkins + Will
- AARB Presentation in August



# West Campus Lightning Detection & Notification System: Review & Approval

## Lightning Detection:

- Lightning 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
- Lightning 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



# West Campus Lightning Detection & Notification System: Review & Approval

## Solution:

- Earth Networks Total Lightning Network®
- Stand alone system limited points of failure
- Automated real-time lightning detection
  - Uses lightning sensors throughout the world
  - Custom alert ranges (e.g. 5-15 miles)
  - Test message notification to key personnel
  - Software offers customization and monitoring
- Reduces warning time and human error

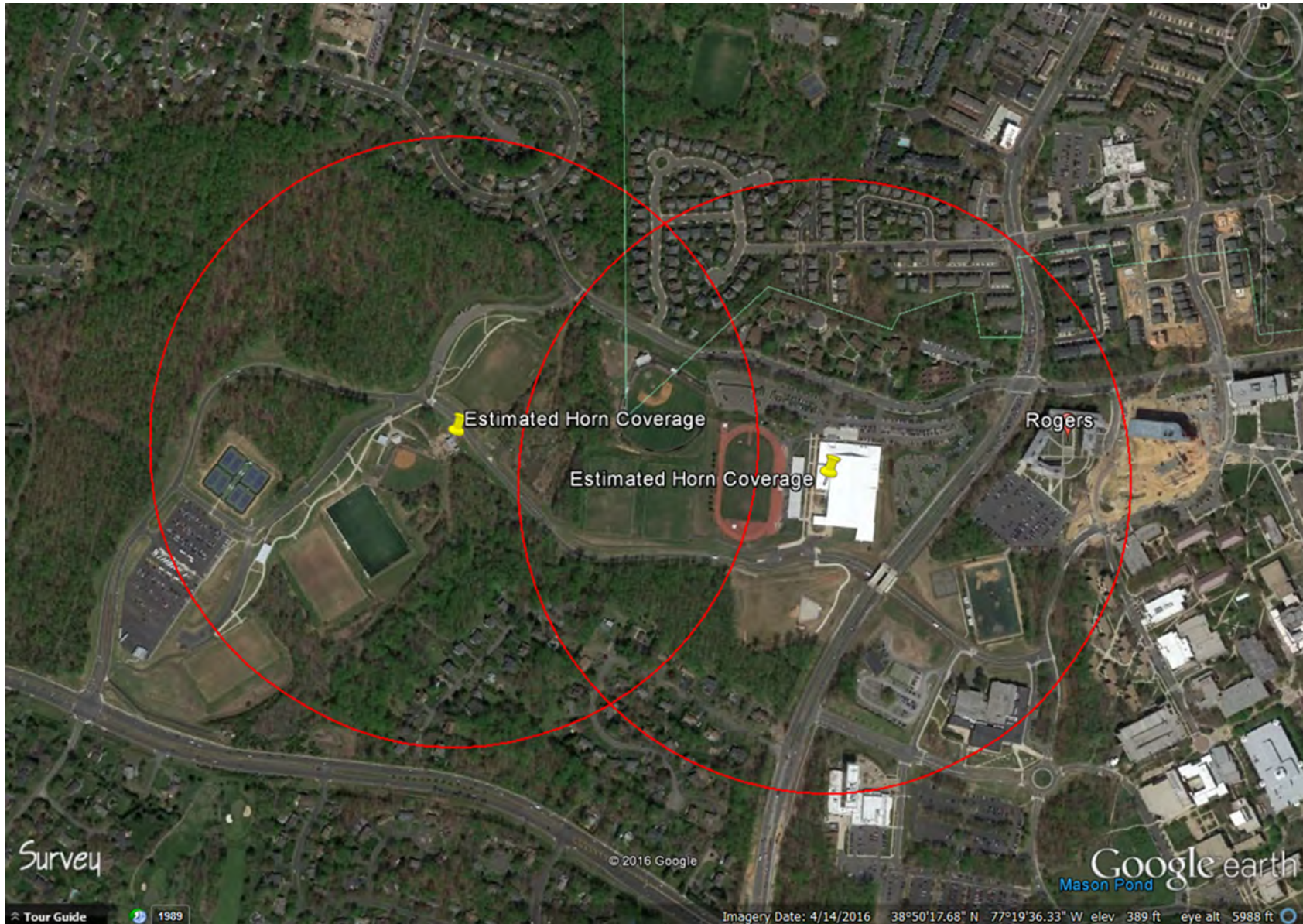
## Audible & Visible Warning:

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





# West Campus Lightning Detection & Notification System: Review & Approval





# West Campus Lightning Detection & Notification System: Review & Approval

Bucknell



Maryland Soccerplex

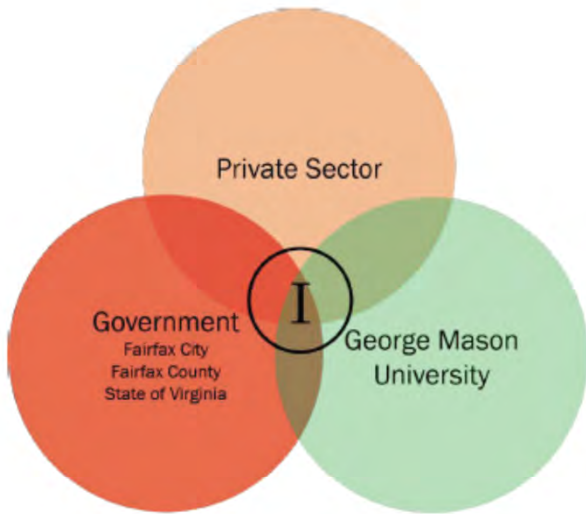


## Questions:

- System can:
  - Be programmed 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

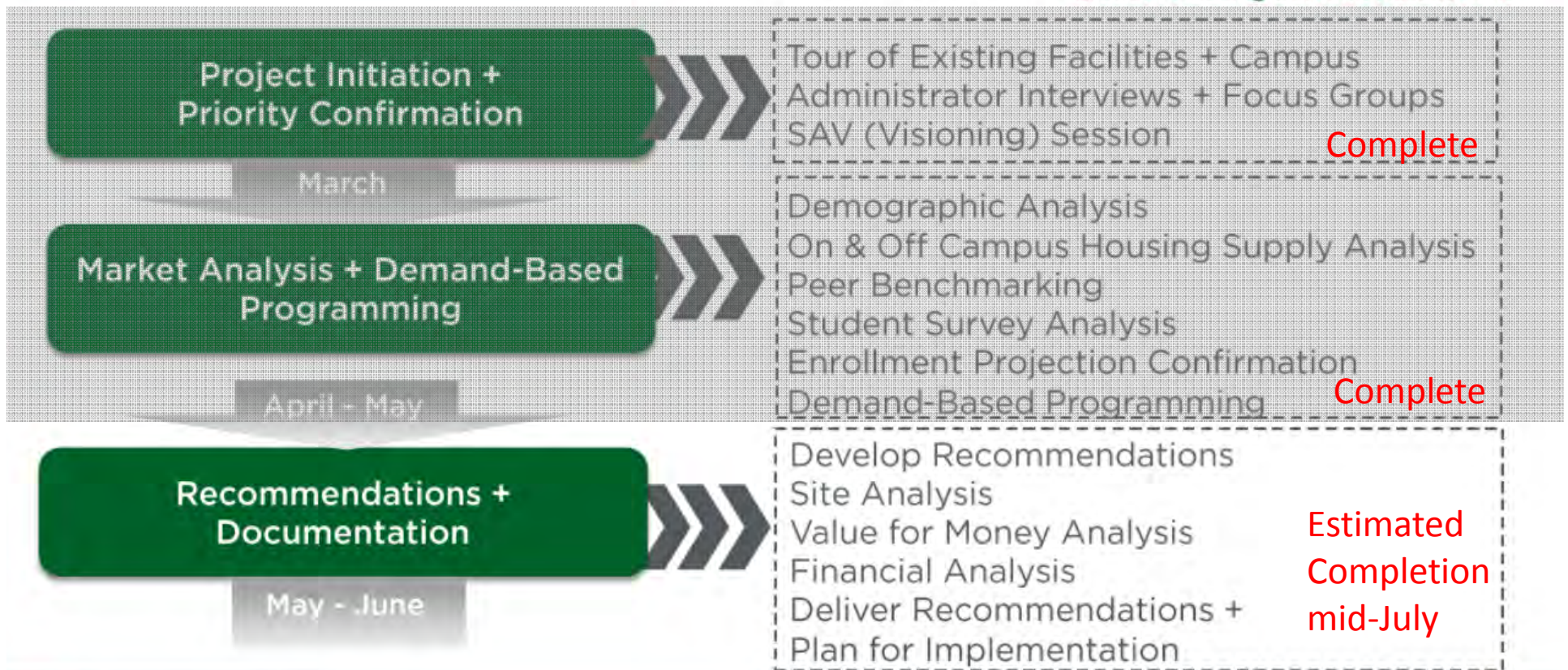


# West Campus Charrette Update



## Schedule Update

Student Housing Demand Assessment

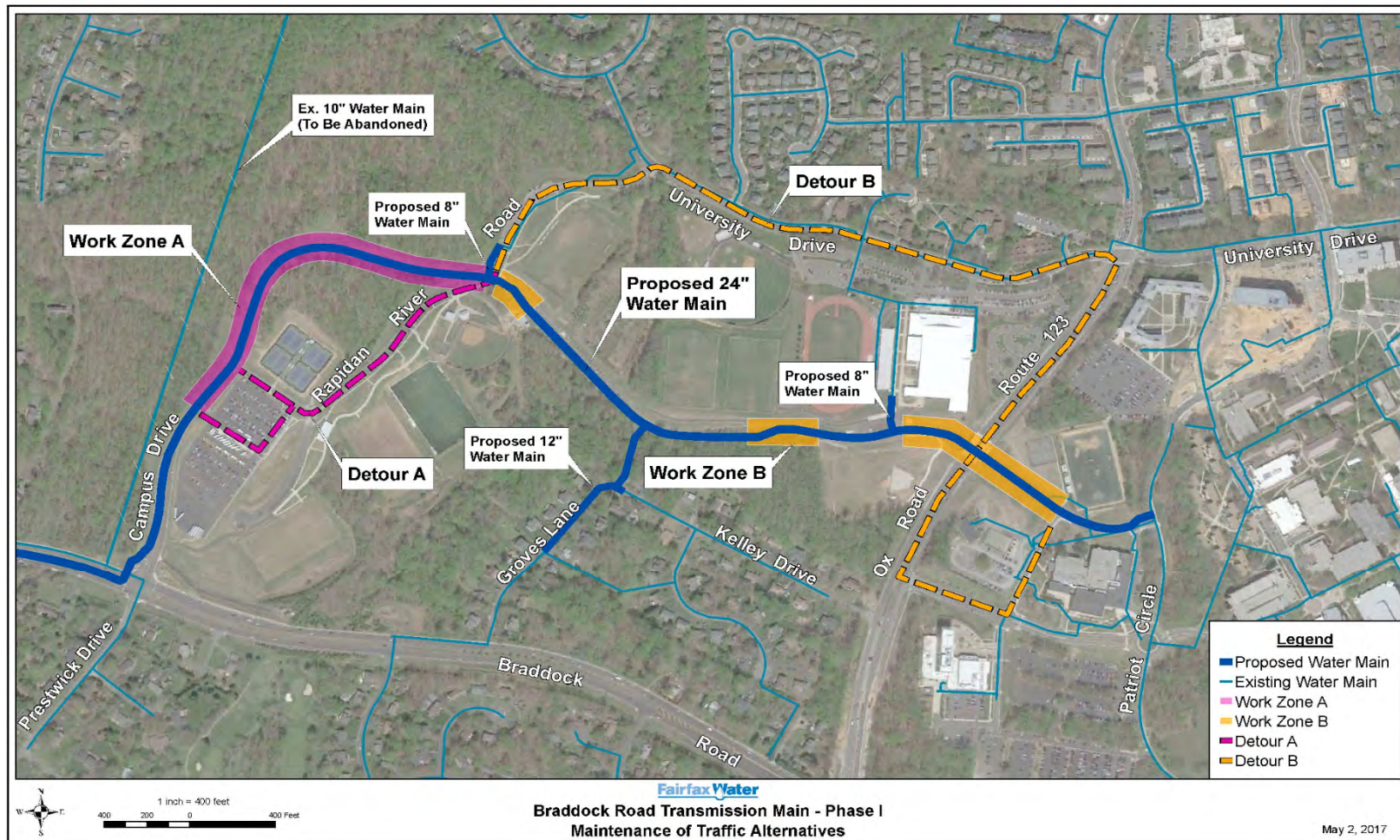




# Braddock Road Transmission Main – Phase I Update

Project Description: Approximately 19,000 feet of 24-Inch Water Main  
Schedule:

- At 90% design, advertising in June
- Construction to begin late summer/early fall
- Construction expected to take 12 to 15 months





## Updates & Future Topics:

- **Future Topics:**
  - Robinson Review
  - West Campus Charrette - Final
  - Housing Demand Study – Final
  - Pavement Graphics

**Next Meeting: August 15, 2017 (proposed) 1:30-3:00 Robinson B, Room B303**