

# PROJECT No. 04-116 & 04-118

OLD FARMS ROAD OVER FARMINGTON RIVER & INTERSECTION WITH  
ROUTE 10

TOWN OF AVON  
SEPTEMBER 21, 2017



# Projects 4-116 and 4-118

Replacement of Bridge No. 04470  
Old Farms Road over the Farmington River

and the

Intersection Relocation of  
Route 10 at Old Farms Road

in the

Town of Avon

**Public Informational Meeting**  
**September 21, 2017**





# Connecticut Department of Transportation Representatives

## Office of Highway Design

William Britnell, P.E.  
Principal Engineer

Justin Giorlando, P.E.  
Project Engineer

Erik Jarboe, P.E.  
Project Manager

Charles Grillo, EIT  
Project Designer

## Office of Traffic Design

Michael Chachakis  
Traffic Engineer



# Connecticut Department of Transportation Representatives

## Office of Environmental Planning

Christopher Samorajczk  
Project Planner

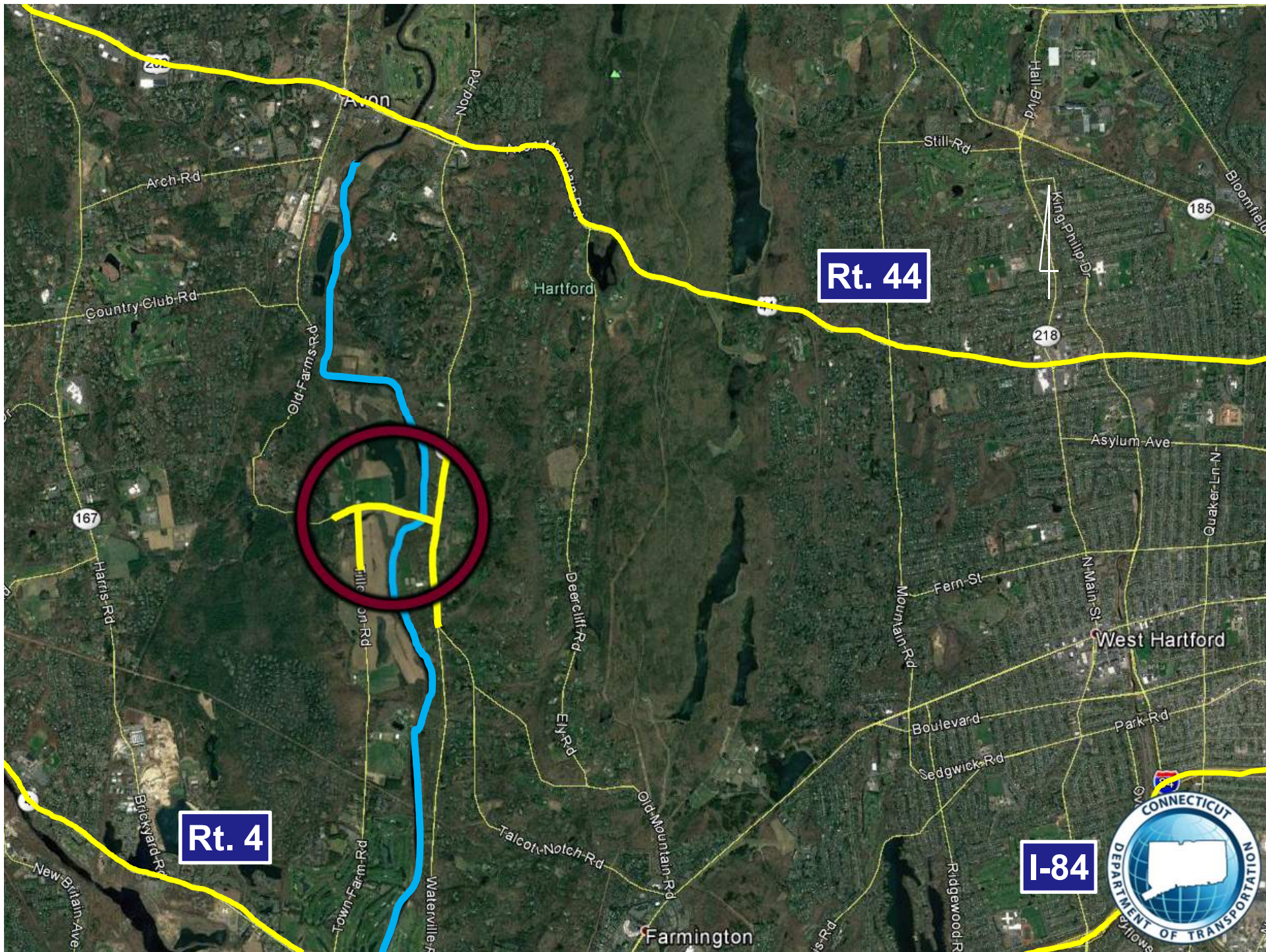
Kimberly Lesay  
Senior Project Manager,  
Environmental Principal  
(BL Companies)

## Office of Rights of Way

Dennis McDonald  
Project Property Agent







203

AVON

Nod Rd

Arch Rd

Country Club Rd

Old Farms Rd

Hartford

Rt. 44

Hall Blvd

Still Rd

185

King Philip Dr

218

Asylum Ave

Quaker Ln N

167

Harris Rd

Deercliff Rd

Elm Rd

Mountain Rd

Fern St

West Hartford

N Main St

Park Rd

Boulevard

Sedgwick Rd

Rt. 4

I-84



Farmington

New Britain Ave

Brickyard Rd

Town Farm Rd

Waterville Rd

Talcott Notch Rd

Old Mountain Rd

Is Rd

Ridgewood Rd



# Project Locations

04-116

04-118

Old Farms Road

Tillotson Road

Waterville Road

Bishop Lane

Route 10





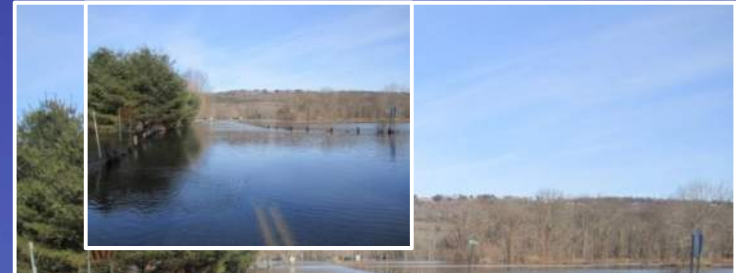
# Project History

- Projects Initiated by Town - 1995
  - *Public Info Meeting by Town* - 1995
  - *Public Info Meeting by Town* - 2000
  - Projects Suspended - 2010
- 
- Projects Reinitiated - 2012



# Existing Deficiencies

- **Old Farms Road Flooding**
  - Seasonal Flooding
  - Approx. the 2 yr. storm event
- **Bridge No. 04470**
  - Functionally obsolete
  - Structurally deficient
- **Traffic Operations**
  - Congestion due to poor geometry
  - Insufficient lane configuration at intersection
- **River Interference**
  - Existing pier in center of watercourse





# Alternatives Studied

## Roadway Alignment Alternatives

- **Do Nothing**
  - Structurally and operationally deficient bridge remains
  - Continued poor traffic operations
  - Continued flooding on Old Farms Road
- **Reconstruct along Existing Alignment**
  - Minimize wetland/4(f) impacts; however, greater floodway impacts
  - Extensive detour during construction
  - Greater impacts to adjacent property owners
- **New Construction along a Southerly Alignment**
  - Horizontal alignment made worse
  - Greatest impacts to property owners and environmental resources
- **New Construction along a Northerly Alignment**
  - Least impacts to property owners in build scenarios
  - Lower impacts to motorists during construction
  - Most conducive for improving facility operations



# Alternatives Studied

## Bridge Alternatives

- **Simple Span (Abutments Only)**
  - No center pier, least impact to the river
  - Largest sub/superstructure → Greatest approach fill & environ. Impacts
- **Two Span (Abutments with a Center Pier)**
  - Center pier, considerable river maintenance required
  - Large sub/superstructure → Substantial fill & environ. Impacts
- **Three Span (Abutments with Two Piers)**
  - One pier on each bank, greatly reduced impact to river
  - Smallest sub/superstructure → least environ. impacts





# Proposed Conditions

- **Raise Profile of Old Farms Road**
  - Reduce potential for flood damage and road closure
- **Replace Bridge 04470**
  - Relocate Downstream
  - Three Span Bridge – Piers moved to edge of stream
- **Reconstruct Old Farms Road at Route 10**
  - Dedicated Turning Lanes
  - Approach Grade Reduced
- **Improve Sight Distance & Intersection Geometry**
  - Old Farms Road and Bishop Lane at Route 10
  - Tillotson Road at Old Farms Road intersection
- **Improve Drainage Structures/Systems Throughout**
  - Three cross culverts along Route 10
  - Avoid 15 km (9.3 mi.) detour



# Proposed Conditions

Fisher  
Meadows  
Park

Fisher  
Meadows  
Pond

River

Thompson Brook

Fisher Meadows  
Open Space

Farmington

- PROPOSED ROADWAY PAVEMENT
- REMOVE PAVEMENT
- GRASS/LANDSCAPED AREA
- GRAVEL
- DIRT PATH
- DEMOLISH
- RIPRAP
- TREES/SHRUBBERY
- GUIDERAIL/GUIDEWIRE
- CONCRETE STRUCTURE
- PROPOSED PROPERTY LINE
- FLOODWAY LIMIT
- 100-YEAR FLOOD LIMIT
- WETLAND LIMIT
- ORDINARY HIGH WATER LINE





# Proposed Conditions

Fisher  
Meadows  
Park

OLD FARMS ROAD

TILLOTSON ROAD

Fisher Meadows  
Open Space

Thompson Brook





# Proposed Conditions

Fisher  
Meadows  
Park

Fisher Meadows  
Pond

Fisher Meadows  
Open Space

OLD





# Proposed Conditions

Farmington  
River

ROUTE 10 (WATERVILLE ROAD)

OLD FARMS ROAD





# Proposed Conditions





# Proposed

# Conditions

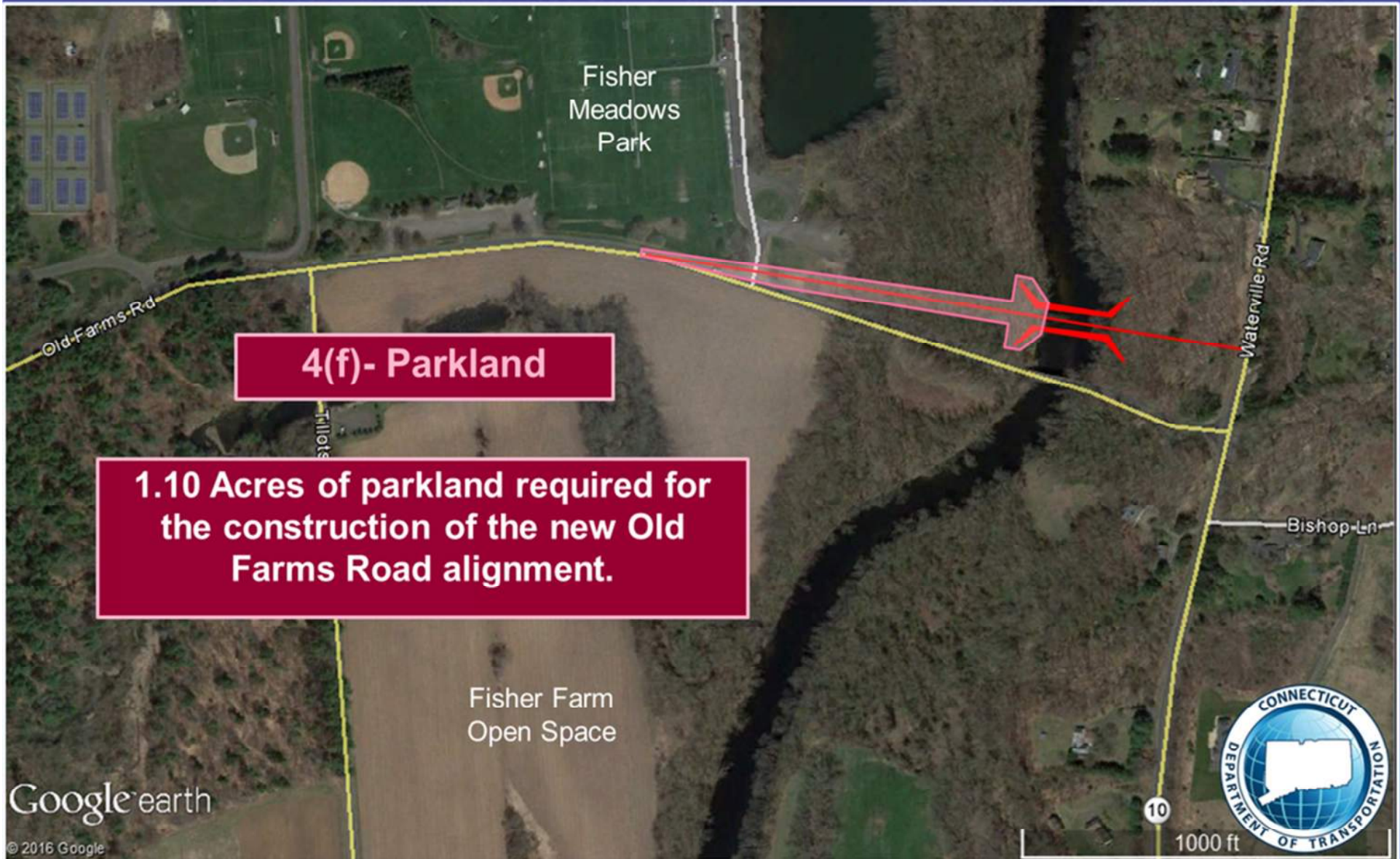
ROUTE 10 (WATERVILLE ROAD)

BISHOP LANE



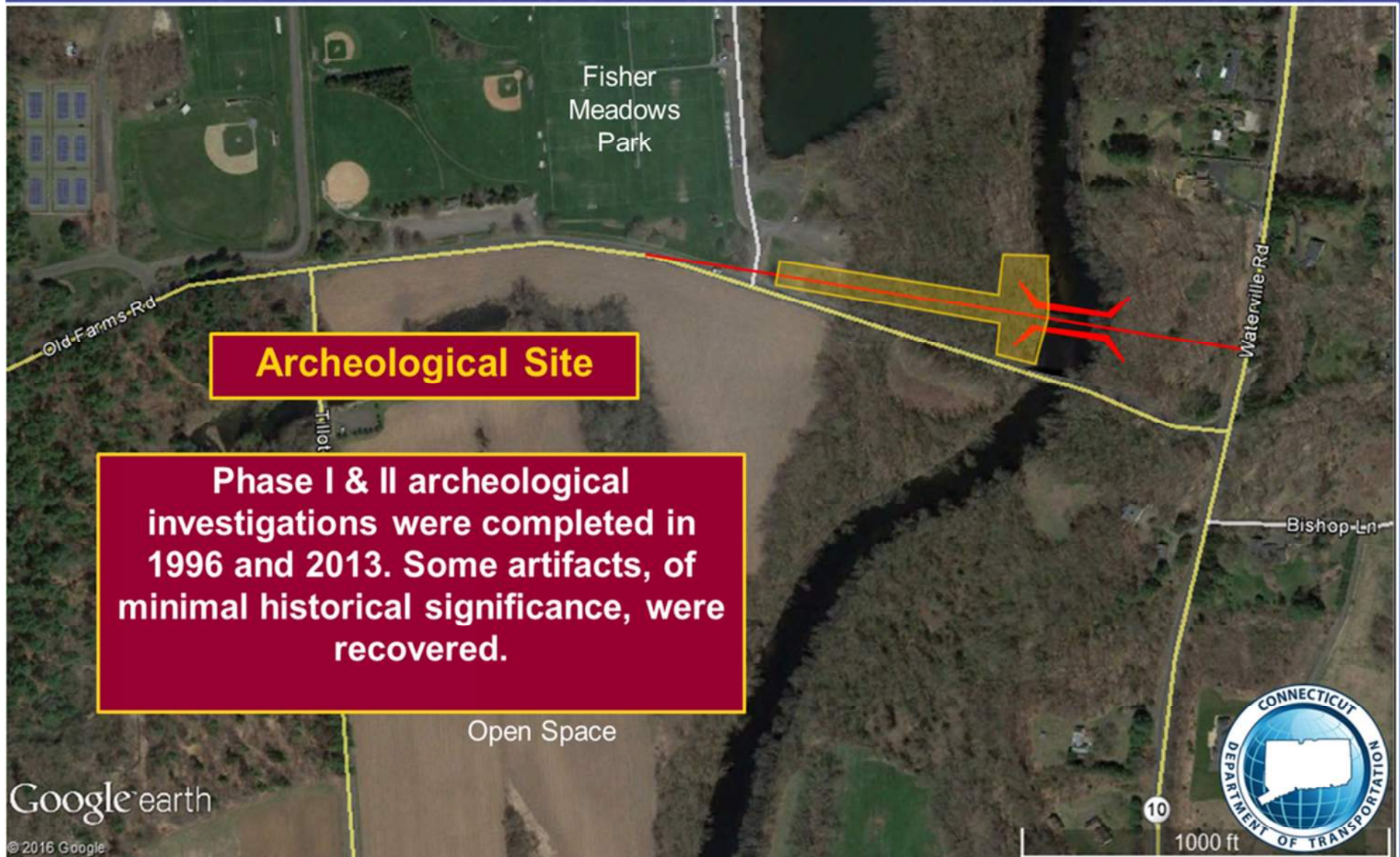


# Environmental Concerns



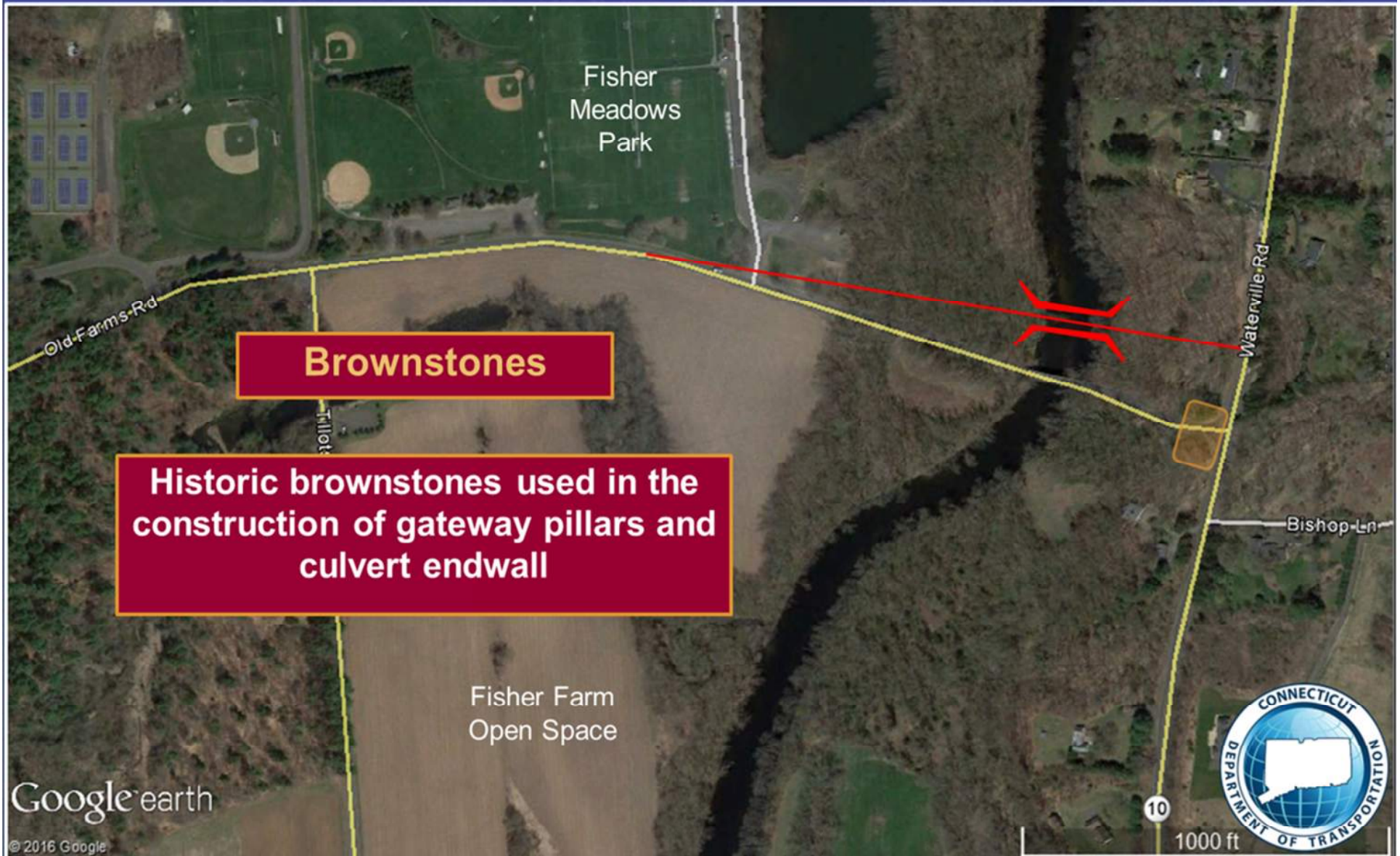


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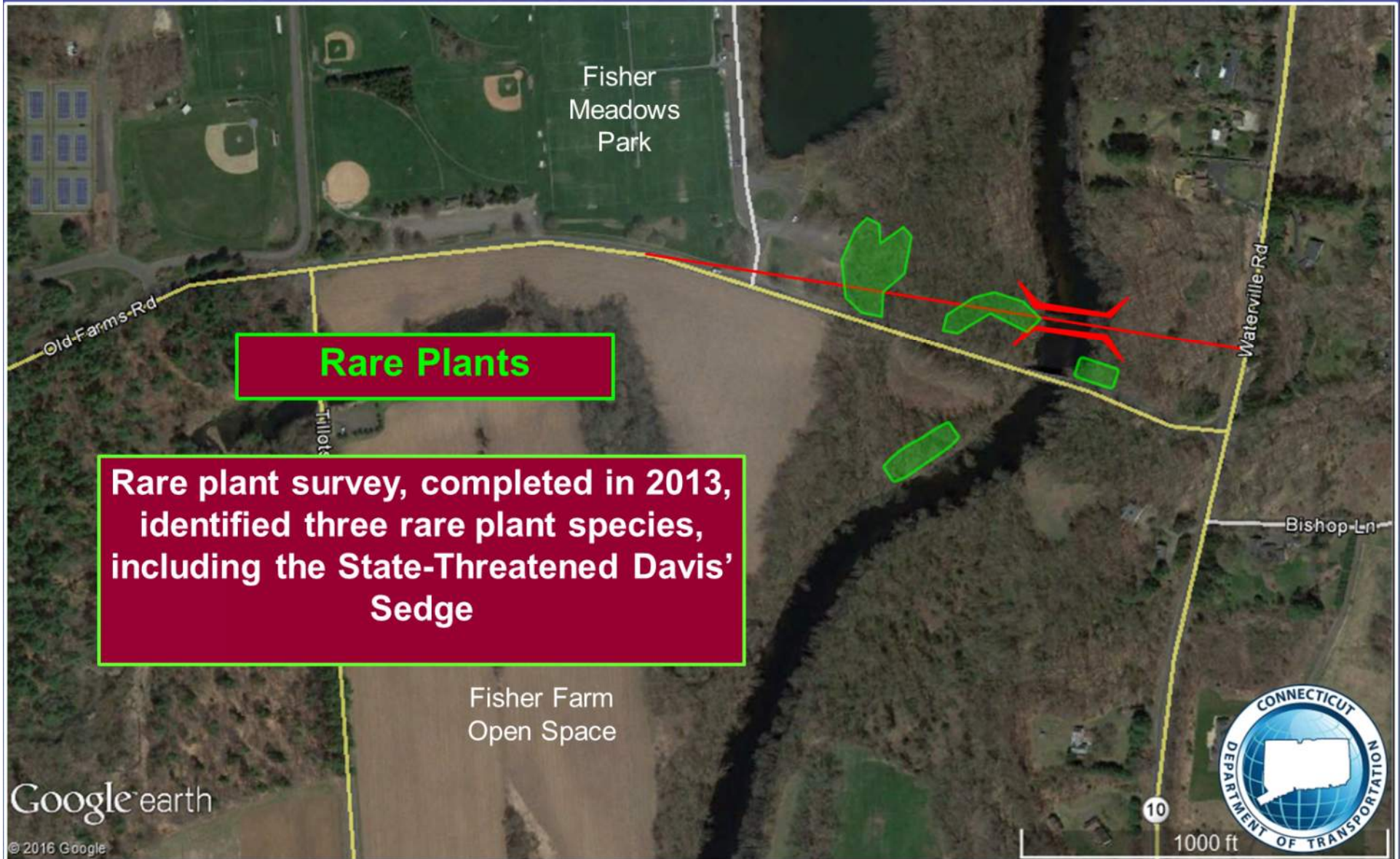


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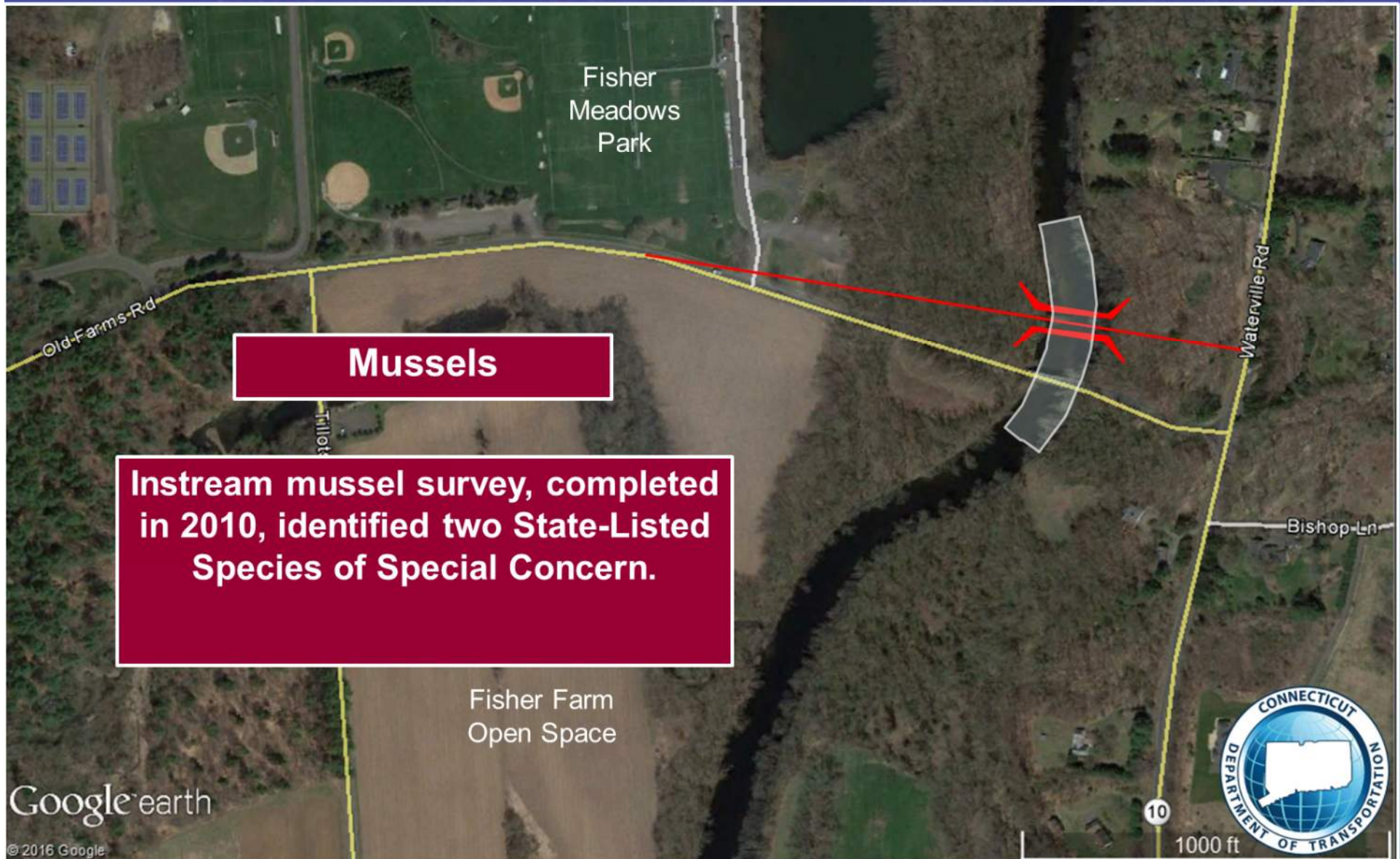


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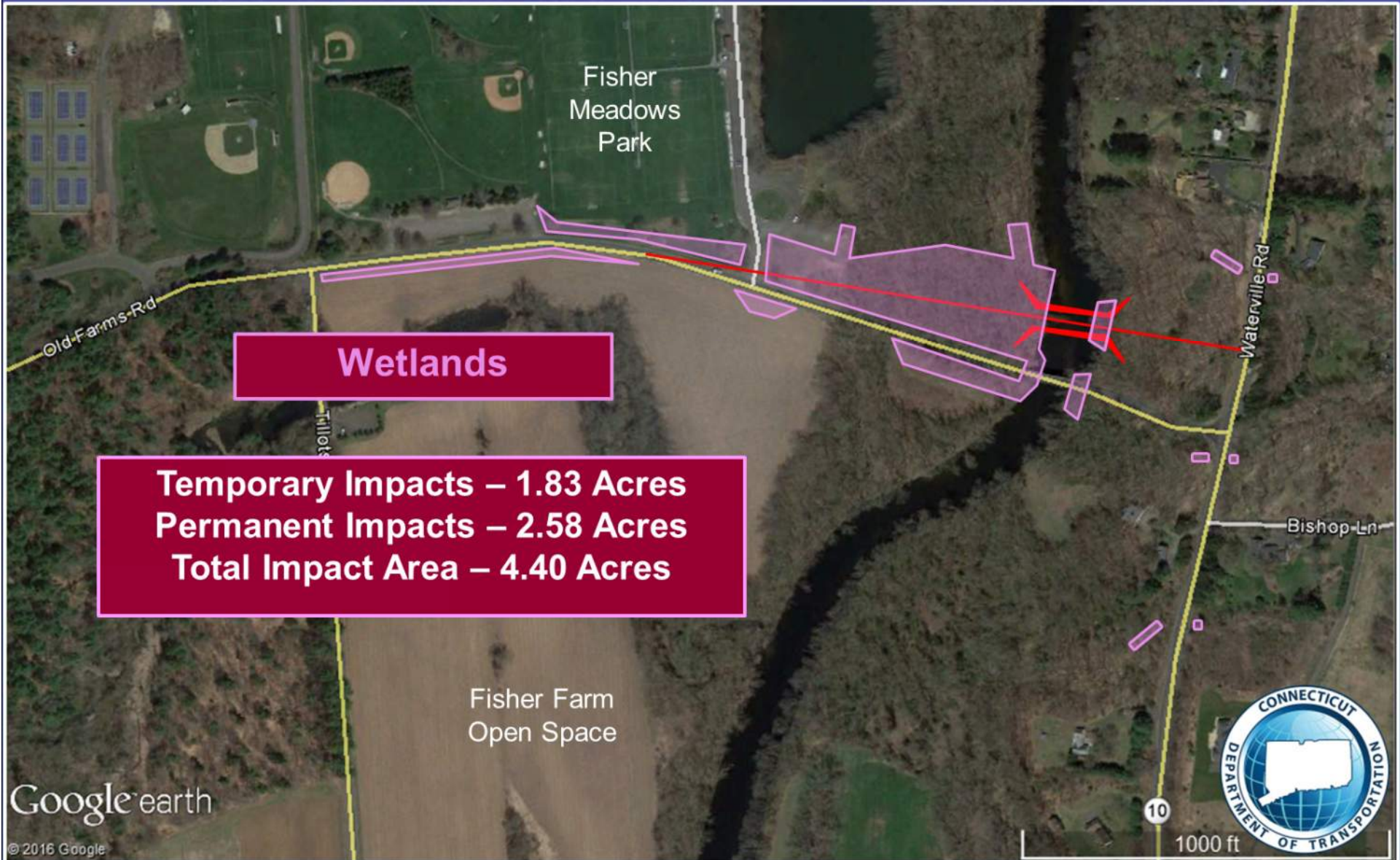


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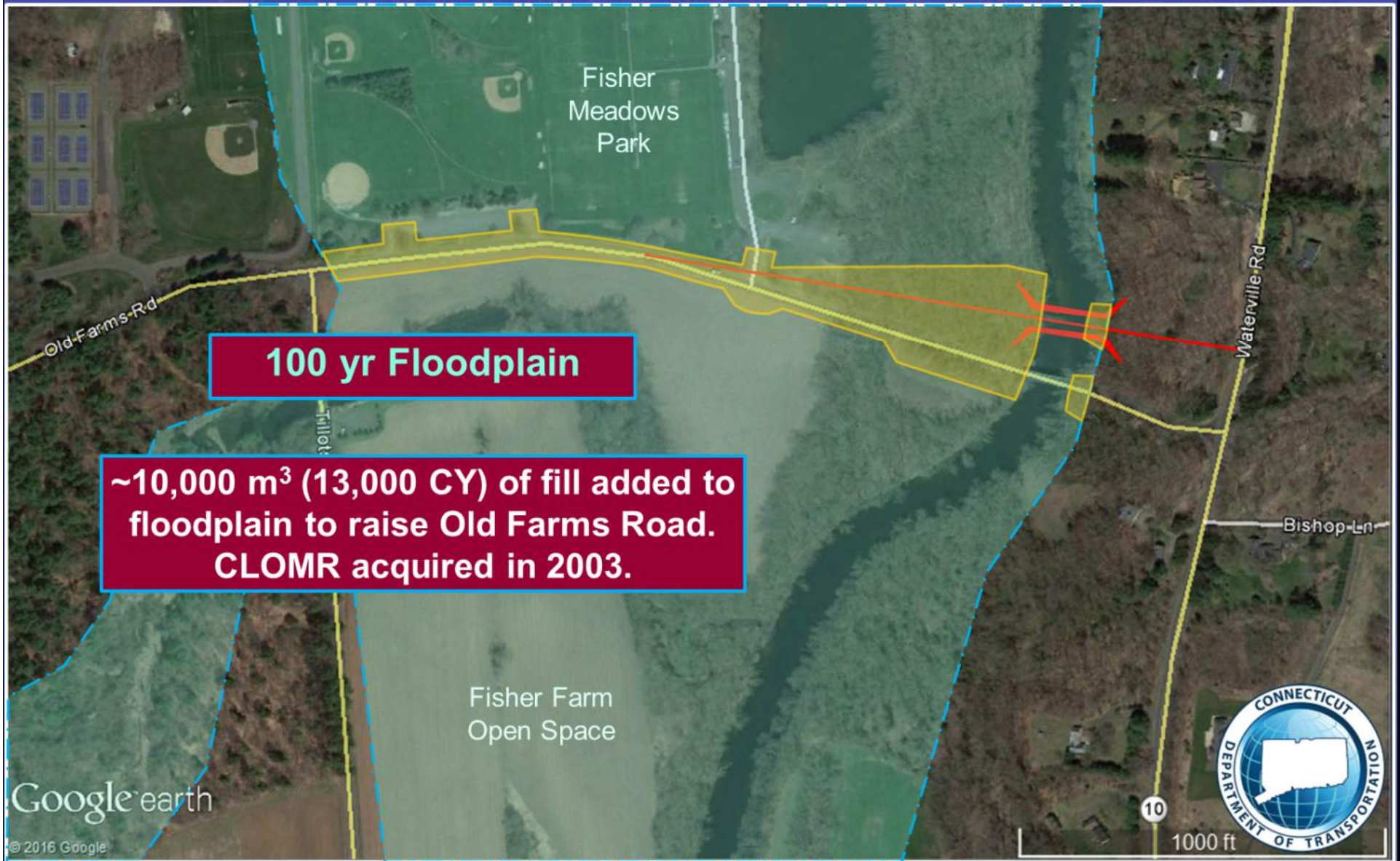


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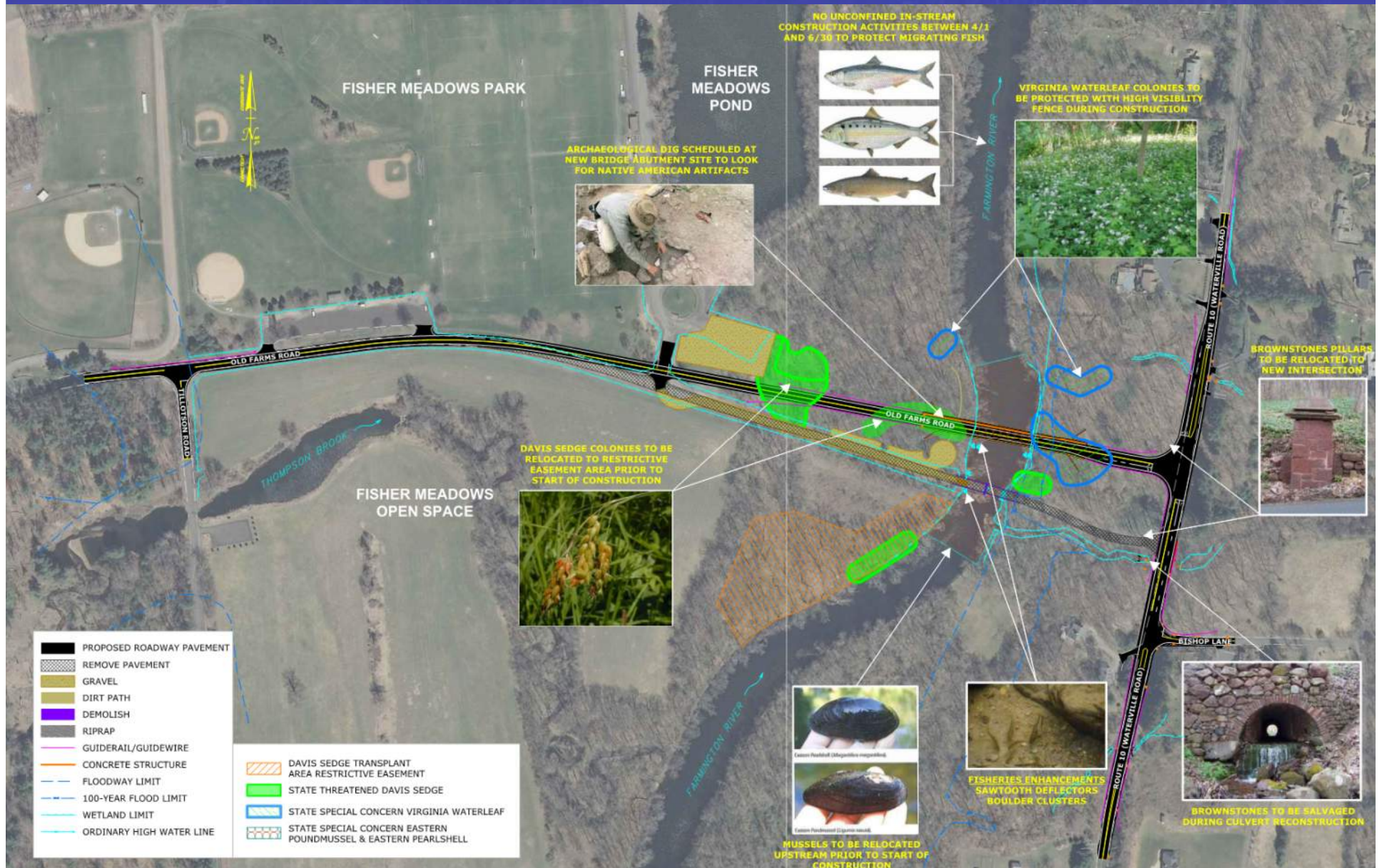


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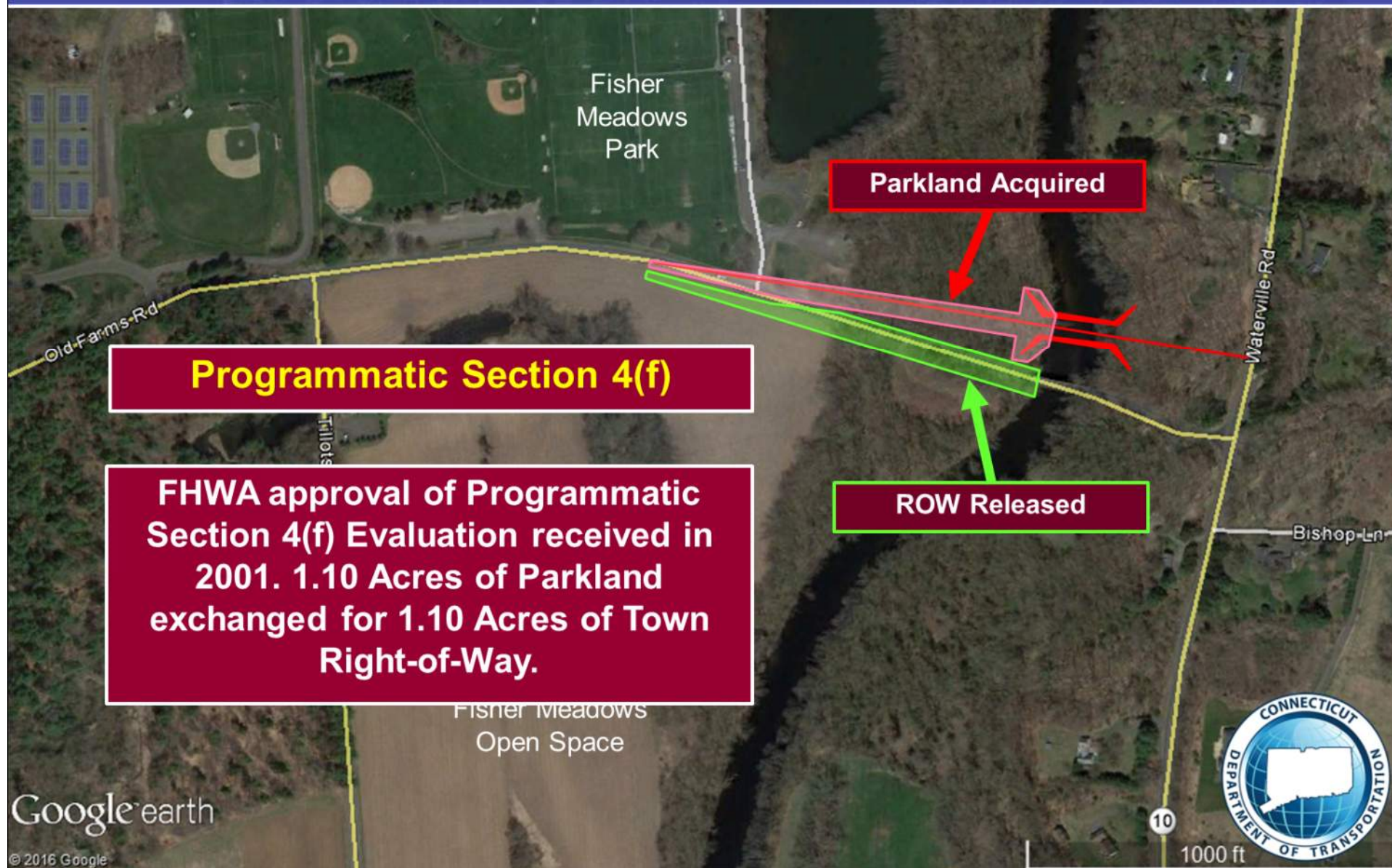


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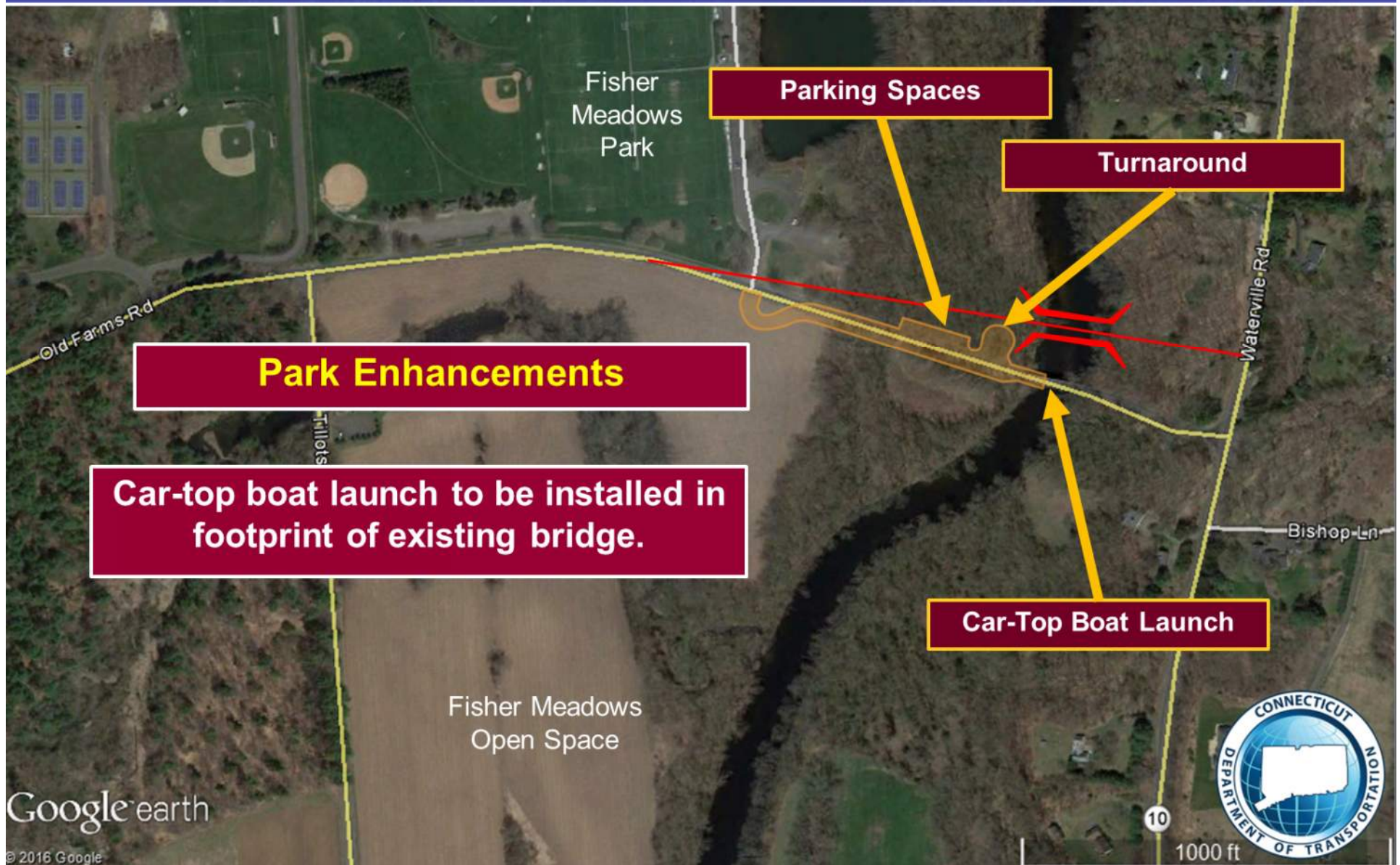


# Mitigation Efforts





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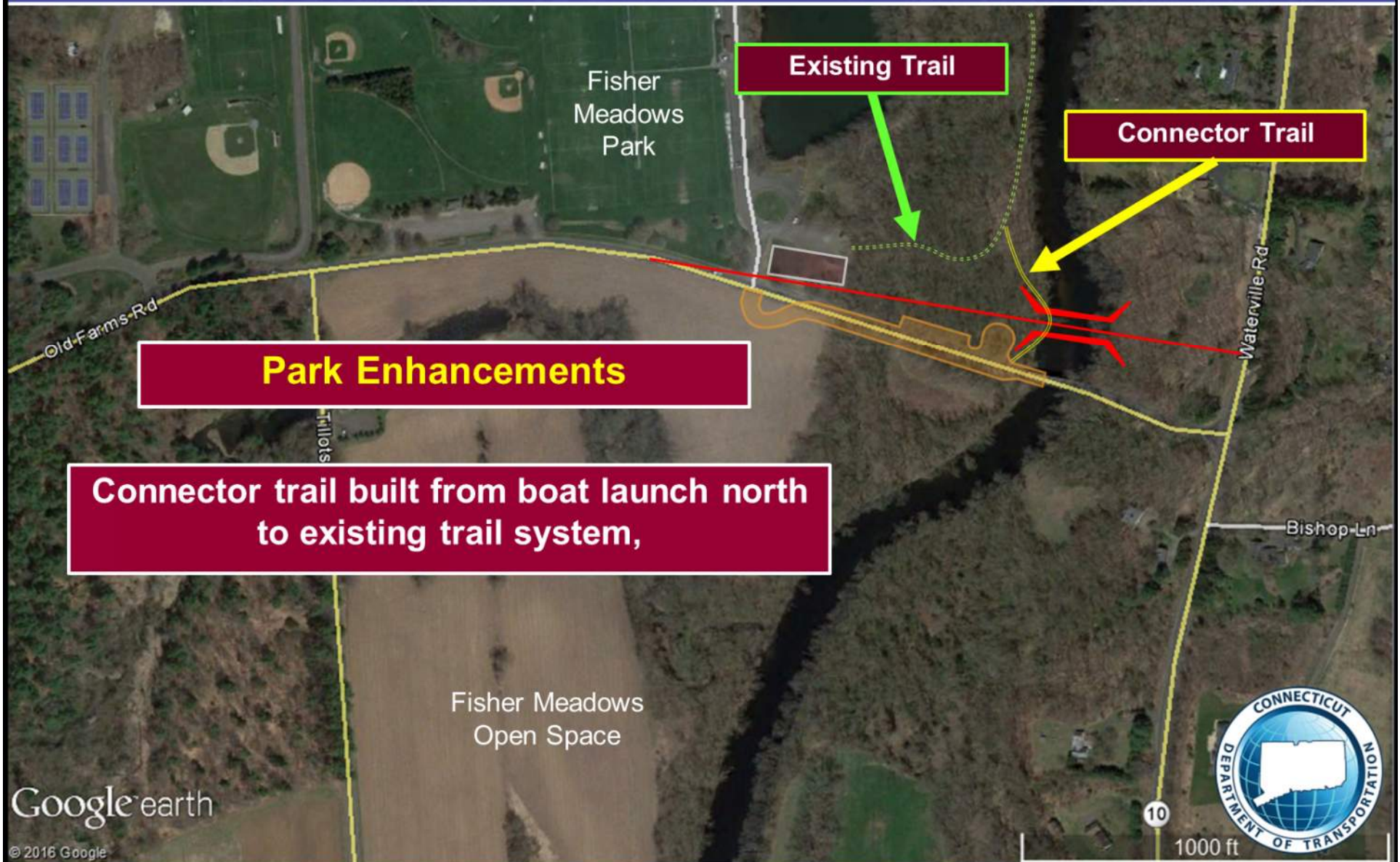


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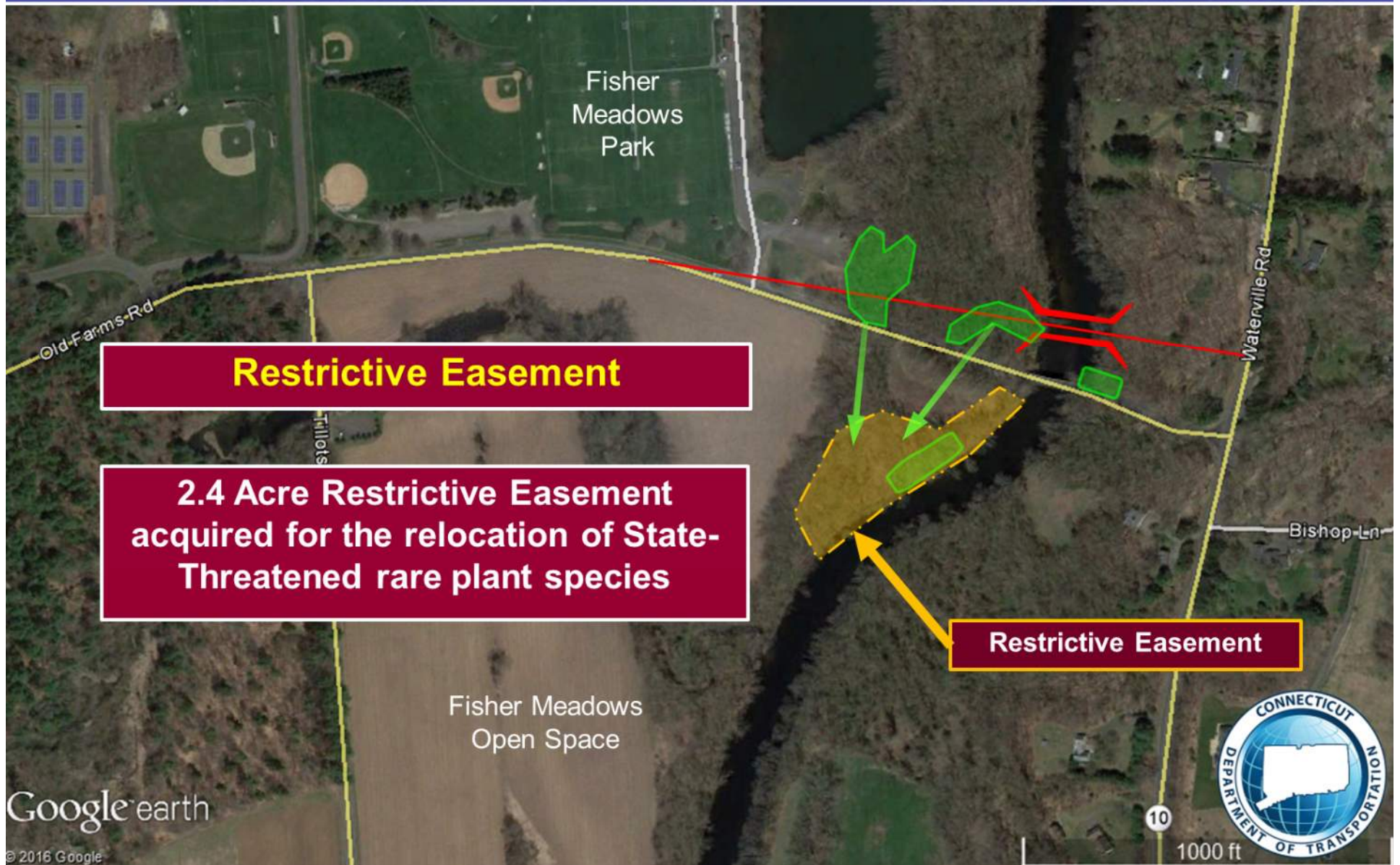


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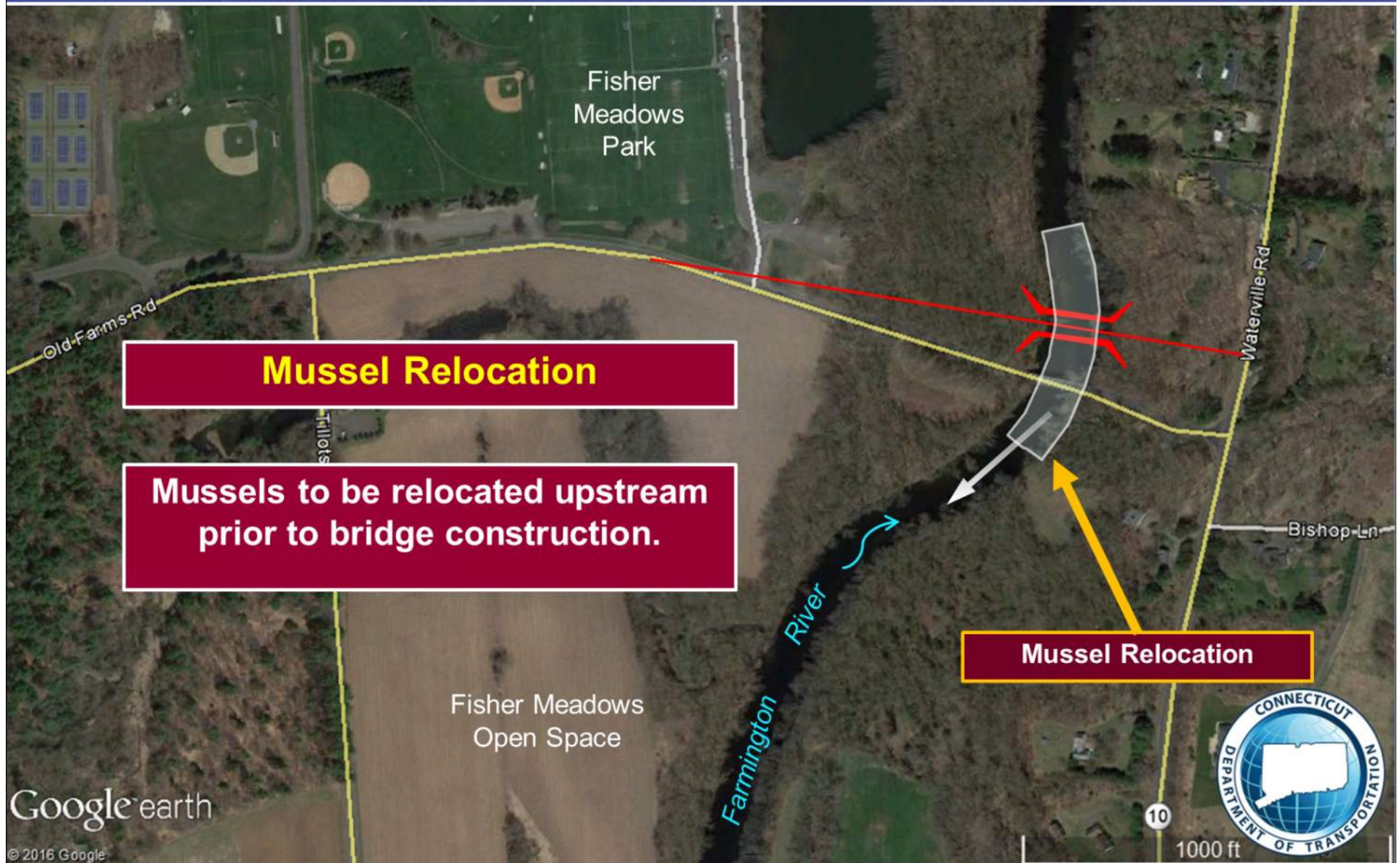


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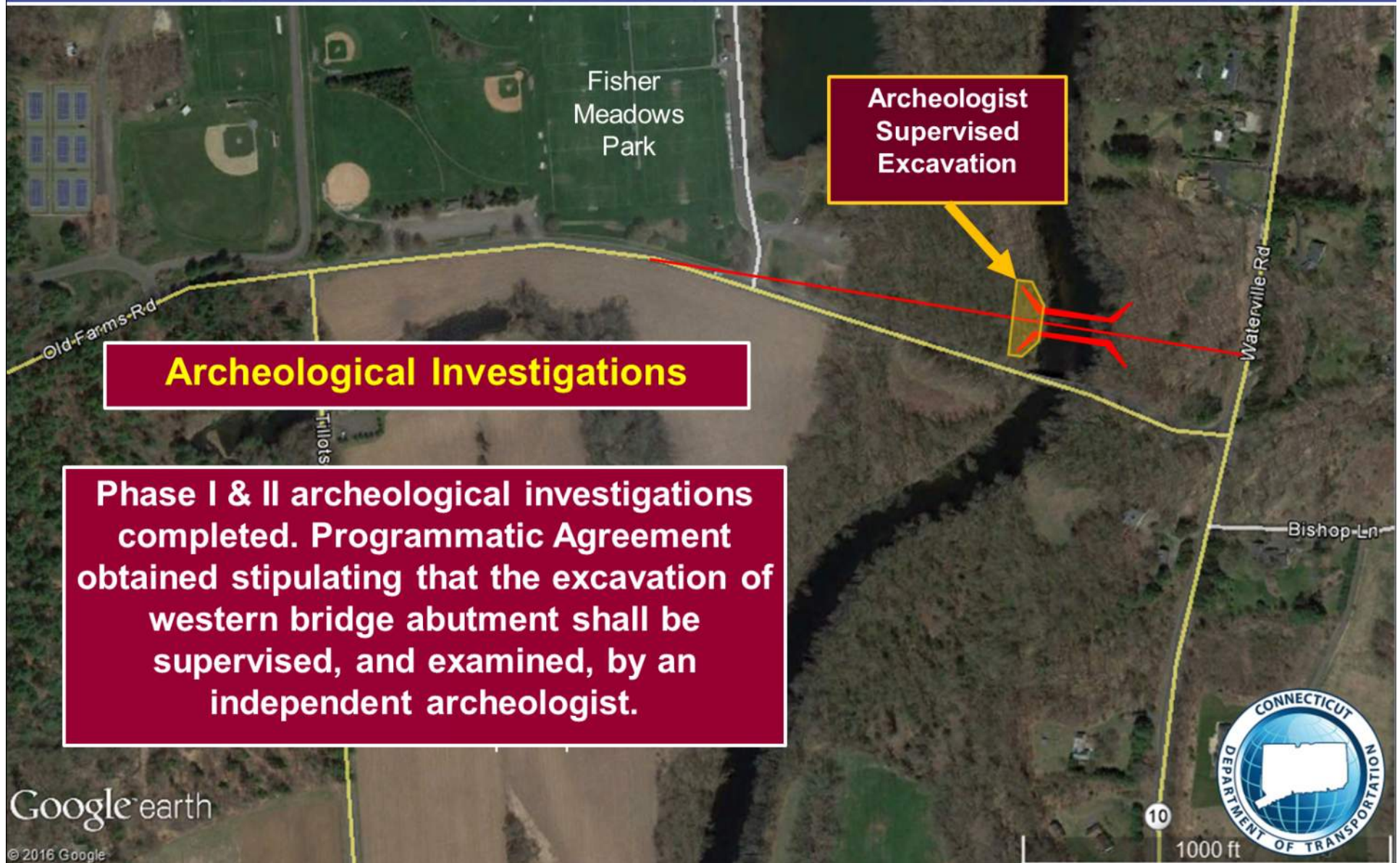


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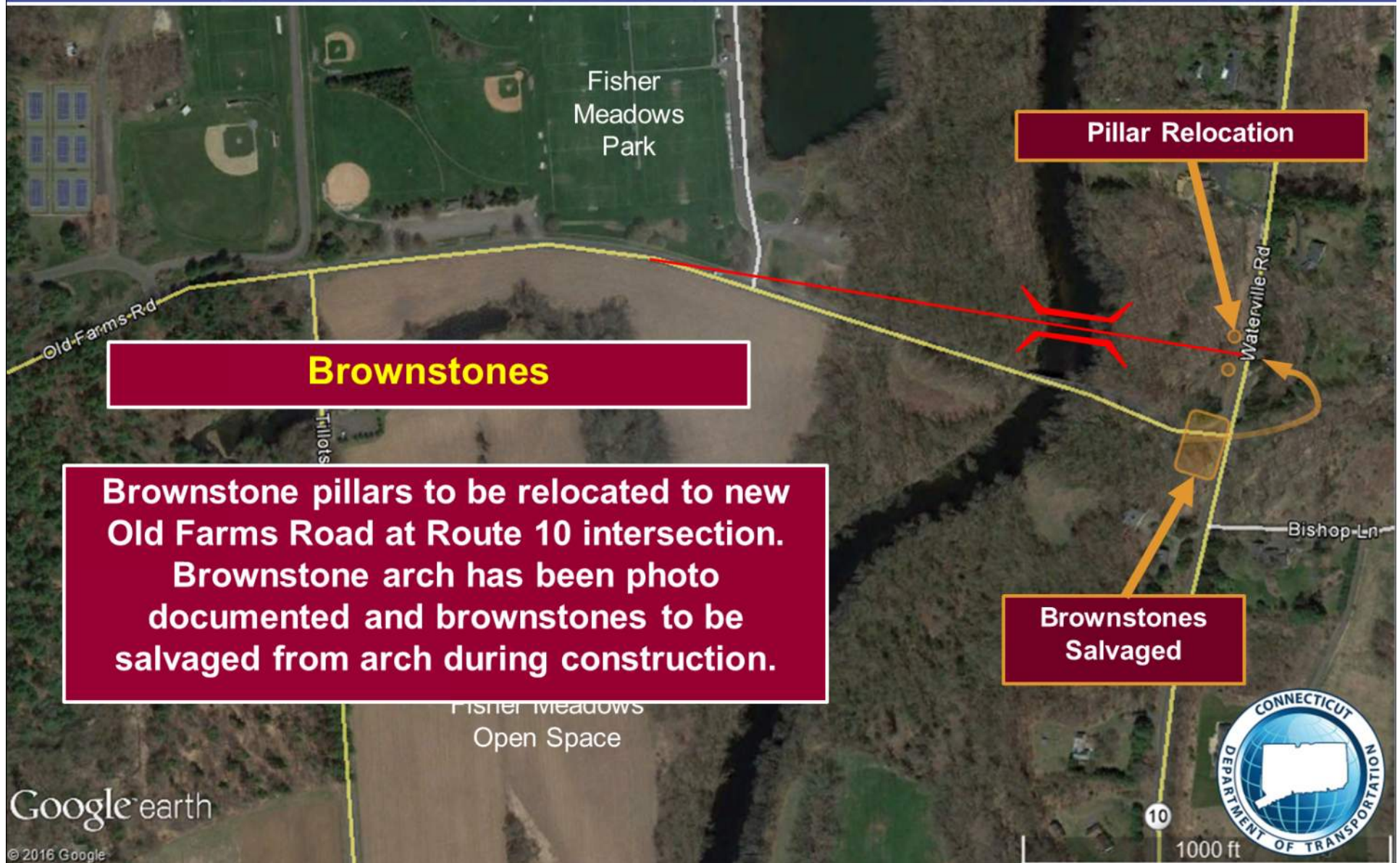


# Mitigation Efforts





# Mitigation Efforts





# Permitting Requirements

- ACOE - PCN (CT General Permit)
  - IWRD Permit Application
    - FMC (Exemption Required)
    - IWW Individual Permit
    - Individual 401 Water Quality Certification
  - Stormwater Management – State Registration
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- NDDB Coordination
  - Incidental Take Approval
  - CLOMR Approval (FEMA NFIP)
  - SHPO Section 106 Programmatic Agreement
  - Section 4(f)/6(f) Processing





# Anticipated Construction Timeline

## 2021

- **Route 10 Construction**
  - Utility Pole Relocations
  - Stormwater Drainage
  - Culvert Repairs and Extensions
  - Widening, Pavement, and Guiderail
- Bishop Lane Reconstruction
- Existing Bridge Removal and Boat Launch Road Construction
- Project Closeout





# Project Construction Cost

- Bridge
  - \$8.5 Million
- Old Farms Road
  - \$4 Million
- Route 10
  - \$4.5 Million
- **Total Construction Cost**
  - **\$17 Million**      **100% State Funds**





# Thank You For Your Time

