

**Agenda Summary**  
**August 28, 2024**

**Agenda Item No. B-1**

**Mayo Farm Squash Culvert Permit Application(s)**

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**Summary:** During the July storm, a wooden pedestrian foot bridge washed out at the Mayo Farm. The foot bridge was used for people to cross from Field A to Field B without navigating alongside Weeks Hill Road. The bridge also served as a crossing for the Quiet Path and special events. There is an existing foot bridge that remains closer to the parking lot however the large volume of users during special events necessitates two points of crossing for safety and emergency purposes.

The Town is still in the process of restoring our infrastructure from the June/July flooding events. Rather than replace the damaged bridge, which would require a more substantive structure due to the larger elevated span required for FEMA and Flood Plane compliance, staff has contracted to install a properly sized arch type of culvert. The arch culvert is proposed to be relocated in a more central location (see enclosed map) to provide improved pedestrian connectivity and separation to the main river channel. The squash culvert allows for an at-grade crossing, without fill in the flood zone. Staff advanced the ordering of the culvert and is seeking quotes for Construction in an attempt to have it installed prior to several major special events that have been permitted to occur this fall season (i.e., soccer tournament, British Invasion, pumpkin chucking festival, etc.).

This portion of Mayo Farm is located within the Special Flood Hazard Area (SFHA) (i.e., the FEMA designated 100-year floodplain). Municipalities participating in the National Flood Insurance Program are required to regulate all development within the mapped SFHA in accordance with minimum FEMA standards. Stowe has elected to regulate development within the SFHA through its adopted Zoning Regulations. Under statute, prior to the issuance of any permit, municipalities must coordinate all proposed development within the SFHA with the State of Vermont Rivers Program, who provides technical assistance. Due to the timing of upcoming special events and anticipated installation time, the Town Manager has submitted the zoning application and is seeking retroactive Selectboard approval to do so.

**Town Plan Impact:** Conforms with the following Flood Resiliency Policy of the Stowe Town Plan: *The Town will continue to administer its Flood Hazard Regulations, to be updated as needed, to maintain eligibility in the National Flood Insurance Program.*

**Fiscal Impact:** The cost of the squash culvert is \$5,000 +/- plus installation. Public Works estimates a bridge at this location, if permissible, would be \$250,000 - \$500,000. It would need be a steel beam bridge with wood decking and concrete foundations elevated above the flood level.

**Recommendation:** Move to authorize the Town Manager to apply for all permits required for an arch culvert crossing replacement of the bridge between Mayo Farm Fields A&B.



This bridge is first priority and necessary for British Invasion. Located in flood plain. Plan to relocate to noted location 3



Proposed location for new bridge. Located in flood plain.



Bridge needs replacement. Located in flood plain.

Stowe Events Field

Weeks-Hill Rd

Quiet Path Trail & Loop

Quiet Path-Weeks Hill Rd side



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Imagery Date: 5/13/2015 44°28'28.09" N 72°41'16.46" W elev 708 ft eye alt 2560 ft

1996



MAYO EVENTS FIELD CROSSING  
SHEET 1 OF 3

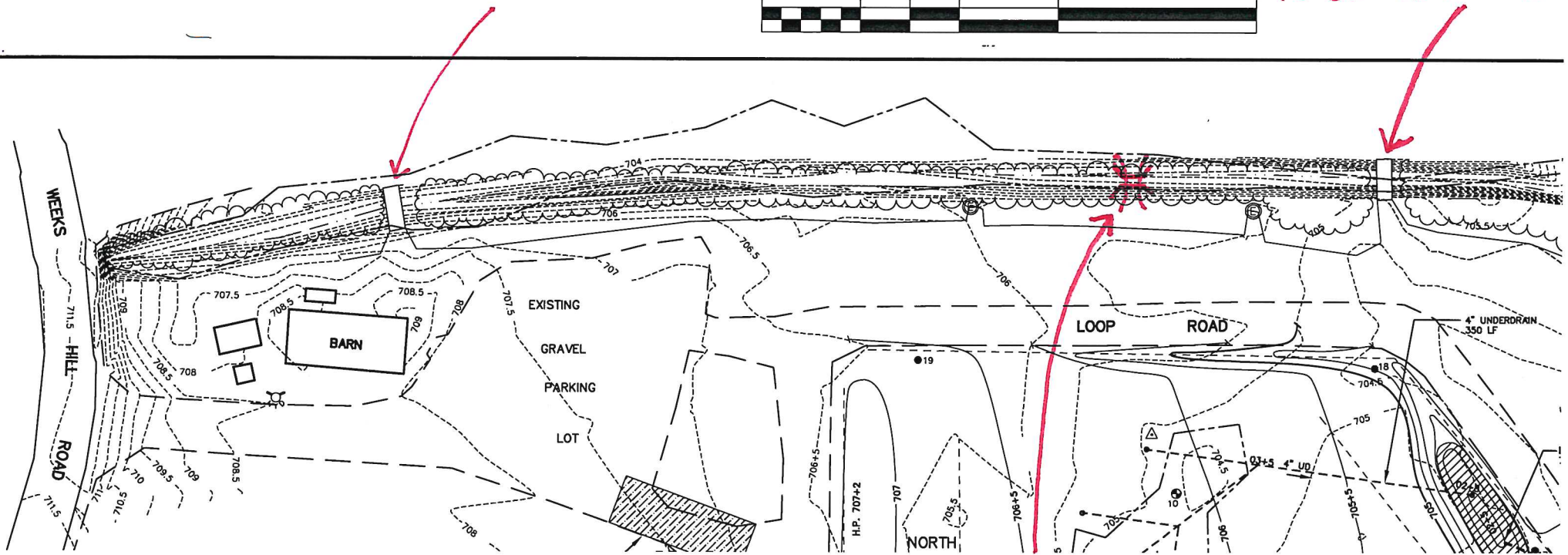
8/15/2024

DRAWN BY: KESTRELOWENS

EXISTING FOOTBRIDGE  
DAMAGED BY FLOOD, TO BE  
REPAIRED

FOOTBRIDGE  
DESTROYED BY  
FLOOD, LOCATION  
TO BE ABANDONED

GRAPHIC SCALE



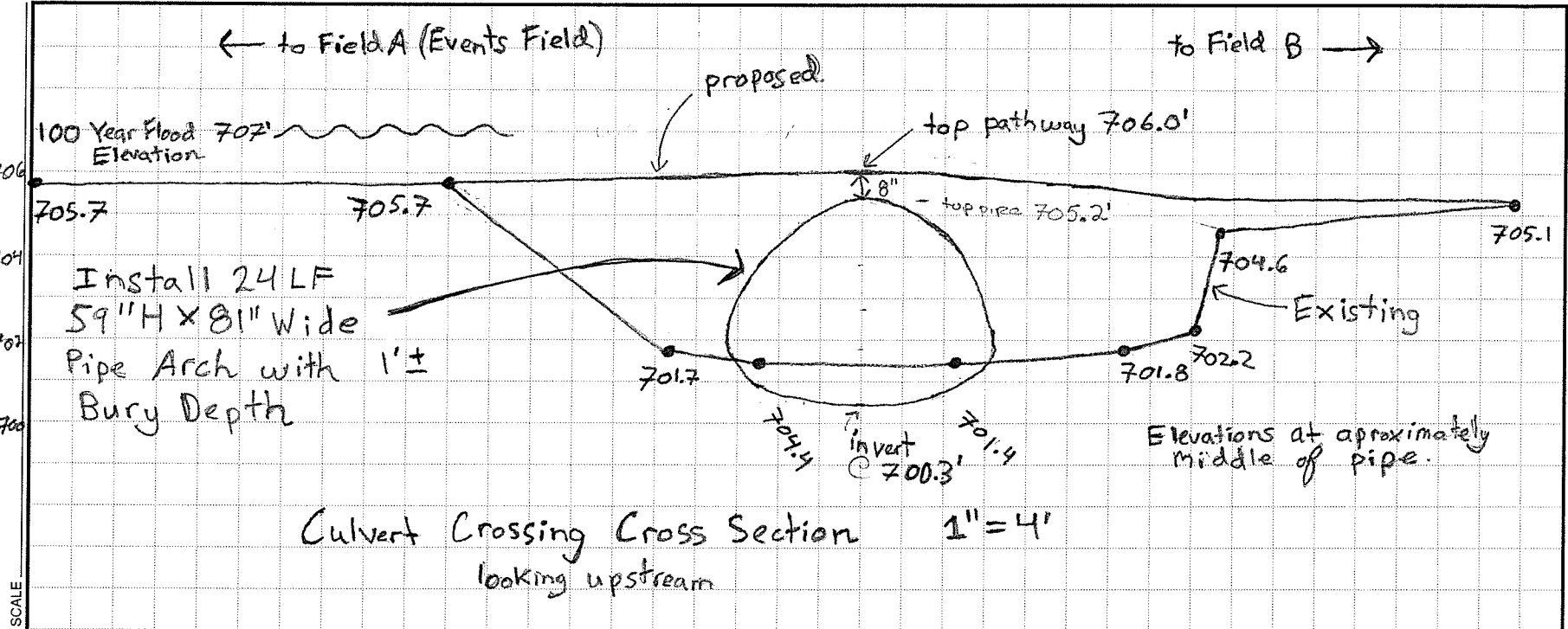
PROPOSED CULVERT  
24 LF 59" W x 81" W  
PIPE ARCH

JOB Mayo Events Fields Crossing

SHEET NO. 2 OF 3

CALCULATED BY Kestrel Owens DATE 8/14/2024

CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

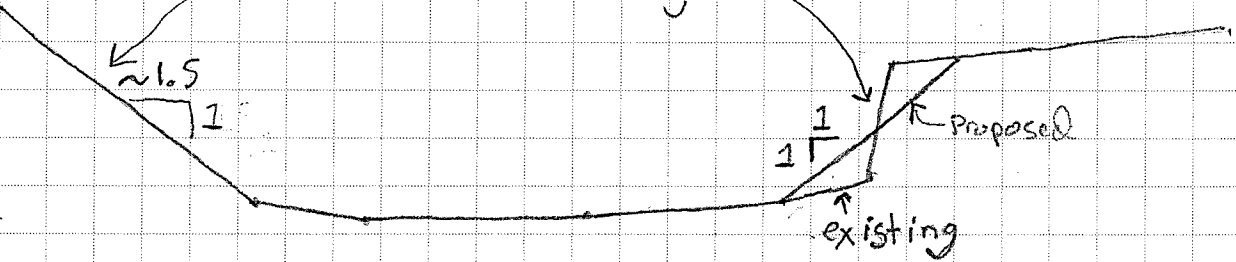


← 25' Riparian Buffer

Plant native Willow Trees @ 25' ± O.C., Seed and Mulch with Conservation Mix

Seed w/ Wetland Conservation Mix  
Install Biodegradable Erosion Control Matting

(Both sides where vegetation has been disturbed)



Stream Bank Restoration Cross Section 1" = 4' looking upstream

Public Works Department  
P.O. Box 730, 67 Main Street  
Stowe, VT 05672  
802-253-8770





Public Works Department  
 P.O. Box 730, 67 Main Street  
 Stowe, VT 05672  
 802-253-8770

JOB Mayo Events Fields Crossing

SHEET NO. 3

OF 3

CALCULATED BY Kestrel Owens

DATE 8/14/2024

DATE \_\_\_\_\_

CHECKED BY \_\_\_\_\_  
 SCALE \_\_\_\_\_

706

704

702

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