

VoM FMAC – Agenda -2/28/2023

1. **Welcome to the Feb 2023 FMAC Meeting**
2. **Meetings Info**
 - a. 4th Tuesday of the month, 7 PM, Courthouse with Zoom for the Public
 - i. Members who cannot attend in person may Zoom in but cannot vote
3. **2/15/2023 Meeting - FMAC, VoM, USACE – Notes – Discussion**
 - a. Notes below
 - b. Discussion
 - c. Next Steps
4. **Updates – see Table below.**

Previous Business - Updates

5. **Applications Review in the Floodplain**
6. **Flood Plain Regulations – discussion;**
 - a. Model Laws generally generated by the States; BC to see if there are new model laws such as the ToM passed that we could review
7. **Communication & Cooperation with Municipalities in our Watersheds**
8. **Questions from the Audience**
 - a. Allowed if Agenda has been completed
 - b. limited to 3 minutes per person on Flood topics
9. **Other**

Appendices

A. Meeting Notes 2/15/2023 – FMAC, VoM, USACE

Meeting Notes – Village of Mamaroneck & USACE – 2/15/2023 – Mamaroneck Flood Control Project by Tony Gelber

1. Introductions
 - a. **USACE**
 - i. **Bethany McClanahan – Project Mgr.**
 - ii. **Daniel Kim – Structural Engineer**
 - b. **VoM**
 - i. **Jerry Barberio - Village Mgr., (VM)**
 - ii. **Gino Frabisile – Village Engineer, (VE)**
 - iii. **Leilani Yizar-Reid - FMAC Trustee Liaison**
 - iv. **Tony Gelber - FMAC Chair**
2. Previous Questions - Answers when?
 - a. ***Gelber to summarize all questions and answers in one document and send to Bethany for review and any add'l answers needed.***
3. Project Updates
 - a. **PPA – Project Partnership Agreement – Important document between ACE, NYS, County, Village**
 - i. ***ACE preparing will send to others for review & signature***
 - ii. ***All hoping for a July 2023 completion***
 - iii. ***This allows design of Project elements to begin.***
4. Project Design
 - a. ***H&H study of entire Project area – we have asked for inclusion of the Harbor Heights area including removal of Glendale Ave obstruction and Winfield Ave Br.***
 - b. ***Design of Removal & Reconstruction where applicable:***
 - i. ***Bridges:***
 1. ***Ward Ave - new bridge 85 feet not 45 feet wide – expansion on VoM land***
 2. ***Footbridges – 2 on the Sheldrake 2 in Columbus Park***
 - ii. ***Parking lot tunnel/channel – VoM to review parking***
 - iii. ***River channelization***
 - iv. ***Columbus Park channel modifications***

v. **Non-structural – house raising in Harbor Heights – ACE working on a process for this type of work**

5. The Tweaks – these will be reviewed with the VoM after the PPA is signed. ACE will work with the Village on these Tweaks:

- a. planning/design/discussion of the Columbus Park Tunnel to an open channel design
 - b. hydrologist/hydraulic engineer to start the survey of Ida vs previous storms
 - c. H&H study of Mam R in Harbor Heights
 - d. Temp pumps in Columbus Park – **Proj Mgr. will speak with ACE associates to see if they have suggestions**
6. Can we have monthly meetings to keep us updated?
- a. **ACE will meet quarterly with the VM, FMAC & County & State partners**
7. How can we help you move the Project forward?
- a. **Get the PPA signed. VM will expedite with BoT to the best of their ability.**
8. Other
- a. **Not Dredging but Channel Enhancement – will begin shortly in the ‘allowed’ areas**
 - b. **Tompkins Ave Br. – VM & Staff have gotten funds from FEMA for rebuild**
 - c. **Waverly Ave Br. Being replaced by the Town of Mamaroneck using ACE stds**
 - d. **As down river flows increase – Ward Ave, work in Columbus Park and channel widening, flooding may be reduced in Harbor Heights**
 - e. **SLR under DEC funding is studying stormwater flows in the Watersheds – Sheldrake Mam & Beaver Swamp**

B. Grassy Channel and Permeable Surfaces vs. Closed Tunnel – Columbus Park



Open Diversion Culvert & Porous, Floodplain Parking

The open culvert has same the carrying capacity as the underground culvert, but grass, unlike cement, allows for permeability of the channel area. Open culvert will be easier and safer to maintain, especially in heavy flood conditions.

Lowering of parking and park area by 3½ ft. (~100,000 sq. ft. per VoM GIS map 4-1-5B1) and replacement of asphalt with porous pavers and vegetation allows for the holding of an additional 350,000 cubic ft/ 2,6 mm gallons of floodwater which will recharge groundwater, and avoiding neighboring homes.

Lowering and reconfiguration of parking allows for revitalization of riverfront parkland and neighborhood access.

C. The Mamaroneck Holistic Watershed Flood Control Plan - Draft Outline

The Mamaroneck Holistic Watershed Flood Control Plan - Draft Outline - for Discussion Only - Updated		
TG est	Industry Std Projects Steps - Feasibility Study & Review; Schematic Design & Rev; Design Dev & Rev; Const Doc; Bidding & Award; Construction; 24 months minimum Commissioning	
TG est	Permitting & Funding should be a parallel path - Local Land Use Committees Review & Approvals, DEC & ACE review & permits; Local building permits	
	Projects	Updates for 2/28/28
1	Silt Removal	?

2		USACE - Project	
		PPA Project Partnership Agreement	in progress
		Tweaks & Proj Design	after PPA signed
3		Mam Dam Study	?
		develop vision, options, costs	
4		Mam/Sheldrake Beaver Brook - Watershed Study	Floodmarks Walk pending for next week - TG
		Floodmarks - Walk	
5		Surface Flows Study in the West Village	
6		Emer Preparedness	
7		Evaluate Innovative Options	
		Temp pumps at the Confluence	
		Innovative flood barriers	
		Modern Floodgates & Controls	
		Roads as temp bypasses	
		Highway Stormwater Mgmt. - The Mountain	
		other	
8		Mam Reservoir	
		Determine Vision, Options and Costs	
9		Aquifer and Impact on Flooding	
		Determine Vision, Options and Costs	
1 0		Harbor Heights	VoM FMAC has asked USACE to include in the Village H&H, Hydrology & hydraulic study - TG
		Hydraulic & Hydrology Study	
		Rd to Nowhere & Glendale Rd	
		Development in Harrison	
		Other	
1 1		Crushed Culvert Under Ralph Ave	
1 2		Florence Park Storm & Sanitary Sewer Problems	
1 3		Beaver Swam Brook Flooding	to be included in DEC Watershed Study - TG

1 4		Sound Shore Flooding	
1 5		Bridge Replacements	
		Waverly Ave.	being completed by the ToM
		Walk Bridges	USACE
		Ward Ave	USACE
		Thompkins	VoM rec'd rebuild Grant
		Short St Br/Culvert	
		other	
1 6		Better Dry Housing Initiatives	
1 7		Other	