Mitigation Bureau - Technical Unit October 2017

# FLOOD CONTROL - DRAINAGE IMPROVEMENT WORKSHEET

for preliminary Benefit Cost Analysis conducted by the State Mitigation Technical Unit

Applies for the following mitigation acticities: ACQUISTION, ELEVATION, DRY FLOOD PROOFING, DRAINAGE IMPROVEMENTS, FLOOD CONTROL MEASURES, FLOODPLAIN AND STREAM RESTORATION AND FLOOD DIVERSION. For assistance, contact the State of Florida Mitigation Technical Unit.

IMPORTANT: This worksheet is required as part of your application. The State of Florida Mitigation Technical Unit will conduct a Benefit Cost Analysis (BCA) for your project and the following information is needed to evaluate cost effectiveness. Once a preliminary BCA is completed, the reviewer will contact you to collect support documentation.

SECTION L- PROJECT GENERAL INFORMATION

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Project Name							
Applicant							
Point of Contact		Name:					
		Address (Please inclu	ıde City, State	and Zip Code):			
		Phone number:					
		Email:					
HMA Program (FMA, PDM, HM	MGP, 406 PA MITIGATION	1)					
			I				
SI	ECTION II - STF	RUCTURE GE	NERAL	INFORM	ATION		
Select the type of critical faci	lity to mitigate			Building			
				Utility Infra	structure		
				Road			
				Other			
Address				•			
In case of multiple site	es, attach to this worksheet a	list of all locations/sites in	volved in this p	oroject.			
City, State and Zip Code							
County							
Is this a historical building	?				Yes	No	
Year Built		Source (Ex: Property Ap	praiser):				

In the case of utility infraestructure, provide the year of construction of the oldest structure or the average age of the structure, if improvements have been completed over the years, due to land development.

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	SEC	TION III - HAZARD /	MITI	GATION INFORM	/ATI	ON	
Please select the type o	f proje	ct you are proposing:					
Acquisition	$\dot{\Box}$	Elevation		Dry Flood Proofing	Drainage	$\Box$	
Flood Control Measures	一	Floodplain and Stream Rest		Flood Diversion	一		
Other	一	Please describe:			<u> </u>		
	S	ECTION IV - PROJE	CT C	OST INFORMAT	ION		
Mitigation Project Cost							
A lump sum on th	is worksh	neet is acceptable for preliminary BCA,	but a det	ailed breakdown attached to yo	ur applic	ation is required.	
Annual Maintenance Co	st			\$			
Relates to the am	ount of m	noney you expect to spend every year i	maintainii	ng the project, to ensure function	onality at	the time of a storm event.	
SE	CTIC	N V - HISTORICAL I	DAM	AGES / LOSS OF	SEI	RVICE	
refer to next Utility Infrastructure	sectio	n:					
Potable Water		Wastewater		Electrical		Gas	
Telecom		Other (describe):					
What is the population be	ing ser	ved by the utility system that	will be	mitigated?			
How many customers suf	fered o	utages?					
For how long was the ser	vice ou	t (hrs)?					
Roads or Bridges							
What is the two-way traffic	c count	for this road (trips)?					
What will be additional time	if traffic	c is routed to avoid the flooded	area (h	ours/minutes)?			
How many miles will be a	dded if	traffic is routed to avoid flood	ling?				
For how long was the the	road o	r bridge closed due to floodin	g?				
Other Buildings (please de							
Provide a brief description of how	this buildi	ing is a critical facility which functions a	re essent	ial to the community during a st		nt:	
What is the Annual Opera	ational I	Budget of this critical facility?			\$		

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			SECTI	ON VI - L	oss	OF SERVICE						
Non Resid	lential											
Fire Station	ำ		Hospital			Police Station		Other			$\neg$	
			·   · · · · · · · · · · · · · · · · · ·		<u> </u>	<u>l</u>	<u> </u>					
	If your critic	al facil	ity is a FIRE STA	ATION please	answ	ver the following ques	stions:					
	How many pe											
	Select the type	Urbai	า									
									Suburban			
							Rural	Rural				
	Does the Fire	Station p	provide Emergency	Medical Service	es (EM	S)?	YES		NO			
	Provide the ad	dress of	f the nearest Fire Sta	ation (Name, C	ity, Zip	Code):	1					
	What is the po	pulation	n being served by the	e nearest Fire S	 Station?	)						
		<u>-                                    </u>										
	If your critic	al facil	ity is a HOSPITA	\L please ans	swer t	he following questior	ns:					
	How many pe	How many people are being served by this Hospital?										
		stance in	n miles to the neares	st Hospital capa	able of p	providing the same type o	f					
	service? Provide the ad	dress of	f the nearest Hospit	al capable of pr	oviding	the same type of service	(Name, C	ity, Zip C	ode):			
	How many pe		being served by the	nearest Hospi	tal capa	able of providing the same	÷			$\dashv$		
	If your critic	cal facil	litv is a POLICE	STATION ple	ase ar	nswer the following q	westions	s:				
	Indicate the ty	pe of are	ea served by this Po	olice Station			Metro	politan				
							City					
							Rural					
	How many pe	ople are	served by this Polic	e Station?								
	How many Po	lice Offic	cers work or report to	o this Police St	ation?							
	How many off	icers wo	uld still work from th	nis building if it i	s shut c	down due to a disaster?						
	·-		(please describe):	which functions are	coccenti	al to the community during a s	torm event					
Provide a brier	description of nov	/ this bulla	ing is a critical facility w	/hich functions are	) essem	al to the community during a s	torm everii.					
What is the	- Assuel Oper	rational	Budget of this crit	tiaal facility?			\$					
IVVIIAL IS LITE	; Alliluai Opei	alionai	budget of this chi	lical facility:			φ					

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Utility Infra	astructure (selec	ct or des	cribe the type of utility)						
Potable Wa	ater		Wastewater	Electrical		Gas			
Telecom			Other (describe):						
What is the	nonulation hei	na ser	ved by the utility system that w	vill he mitigated?					
vviiat is tric	Relates to number	of custo	omers being served by the system and the		case of an outage	. Include only	the cus	tomers conne	ected to
	locations that will b	e mitiga							
			SECTION VII - HIS	STORICAL DA	MAGES				
Year	Storm Nan	ne	Property Addre	ess	Water depth (inches)	Claims (	(\$)	City Exper	nses (\$)
						l Attach an ac	ddition	l al page if ne	cessary
Were resid	lents trapped	during	the flooding			Yes		No	
For how lo			<u> </u>			L			
Did the Cit details:	y or County in	curre	d into any expenses attendir	ng the emergency	during past	events? If	so, p	lease pro	vide
Year			Expense D	escription				Cost	(\$)

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## **SECTION VIII - EXPECTED DAMAGES**

(Only if preliminary or final H&H study is available. Leave blank if no H&H studies are available)

Using your H&H results, please provide **before and after mitigation data** in regards of the number of structures that will suffer damages based on the modeled escenarios (25, 50, 100-year storm event)

	Before Mitigation							
Recurrence Interval	Address	Estimated Structural Damages	Estimated Content Damages	Road closures (hrs)				

Attach an additional page if necessary

	After Mitigation							
Recurrence Interval	Address	Estimated Structural Damages	Estimated Content Damages	Road closures (hrs)				

Attach an additional page if necessary