

Dave Eggers
Pat Gerard
Charlie Justice
Janet C. Long
John Morroni
Karen Williams Seel
Kenneth T. Welch



January 21, 2016

Miles E. Anderson, Chief, Bureau of Mitigation Florida Division of Emergency Management ATTENTION: Mitigation Planning Section 2555 Shumard Oaks Boulevard Tallahassee, FL 32399-2100

RE: 2016 Local Mitigation Strategy - Annual Update: Pinellas County

Dear Mr. Anderson:

This letter is to comply with Florida Administrative Code 27P-22, pertaining to the annual update on information regarding the Pinellas County Local Mitigation Strategy (LMS) and its Working Group.

The Chair of the Pinellas County LMS Working Group was elected at a regularly scheduled meeting on January 14, 2015. The Chair for 2015 is Carol Renea Vincent, Community Planning Section Manager. Noah Taylor, CRS Coordinator, City of St. Petersburg will serve as Vice-chair.

The membership consists of two types of members. Voting members representing each municipality, the Pinellas County School Board, Pinellas County Emergency Management Department and Pinellas County Planning Department have one vote. Advisory members do not have a vote, but are consulted for technical expertise and valuable input into the planning process. The Working Group continues to work with and seeks to increased participation of not-for-profit organizations, faith-based associations and the private sector. Attached, for your information, is the current roster of LMS participants in Pinellas County. A regular schedule of quarterly meeting dates is set for 2016 as follows: April 14, July 14, October 13, and Dec. 15. Discussion issues and other pertinent information are disseminated by email, as well as posted on a SharePoint site linked to our public access website: <a href="https://www.pinellaslms.org">www.pinellaslms.org</a>. Quarterly meetings are also posted on Pinellas County's Public Calendar of meetings.

Also attached are the updates to the Pinellas County LMS that were approved by the LMS Working Group at its January 14, 2016 meeting. These updates pertain to Appendix 9 - Mitigation Initiatives, and to Appendix 10 - Mitigation Accomplishments. Attachments for these updates are shown in strike-through/underline format. Clean versions will be placed on the LMS website after receipt by FDEM.

Pinellas County Planning 310 Court Street Clearwater, FL 33756 Main Office: (727) 464-8200 FAX: (727) 464-8201 V/TDD: (727) 464-4062



If you have further questions, please feel to contact me at 727-464-8200 or via email at <a href="mailto:rvincent@pinellascounty.org">rvincent@pinellascounty.org</a>.

Sincerely,

Renea Vincent

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Pinellas County Community Planning Manager

LMS Chair

## Attachments

1) Roster of LMS Participants

2) Appendix 9 Updates (Strike-through/Underline)

3) Appendix 10 Updates (Strike-through/Underline Copy)

ce: Commissioner Charlie Justice, Chair Pinellas County Board of County Commissioners

> Sally Bishop, Director Pinellas County Emergency Management

## PINELLAS COUNTY LOCAL MITIGATION STRATEGY WORKING COMMITTEE ROSTER

**Jan-16** 

Agency/Organization	Name	E-Mail Address	Phone	Position Title
American Red Cross	Hendrickson, Mark	mark.hendrickson@redcross.org	727-744-0382	Business Consultant for COOP & Community Development Education
American Red Cross	Bueno, Jose C	Jose.Bueno@redcross.org	813-868-7673	Regional Preparedness Manager
Area Agency on Aging of Pin./Pasco	Martino, Jason	jason.martino@aaapp.org	727-570-9696	Emergency Coordinating Officer
Bay Area DKI	Ennest, Chris	CEnnest@bayareadki.com	813-224-2464	Account Manager
Bayfront Health St. Petersburg	Beckert, Bruce	bruce.beckert@hma.com	727-893-6967	Construction Coordinator
Bayfront Health St. Petersburg	Roger Fournier PI	roger.fournier@BayfrontHealth.com	727-893-6171	Director of Public Safety
Bayfront Health St. Petersburg	Baker, Glenn	Glenn.Baker@bayfronthealth.com	727-893-6074	Emergency Management Coordinator
Belleair	Lauda, Gregg	glauda@townofbelleair	727-588-3760 x 215	
Belleair Beach	Godfrey, Allen	agodfrey@cityofbelleairbeach.com	727-595-4646 x123	Community Services Manager
Belleair Beach	Gonzalez, Nancy	Ngonzalez@CityofBelleairBeach.com	727-595-4646 x 121	City Manager
Belleair Bluffs	David, Robert	rdavid@belleairbluffs-fl.gov	727-584-2151	Director of Public Works
Clearwater	Matzke, Lauren	lauren.matzke@myclearwater.com	727-562-4547	Long Range Planning Manager
Clearwater (Alternate)	Kessler, Sarah	Sarah.Kessler@myclearwater.com	727-562-4897	Environmental Specialist CRS Coordinator
Clearwater	Ehlers, Scott	scott.ehlers@myclearwater.com	727-562-4334 x3205 727-224-7072 Cell	Emergency Manager
Dunedin	Parks, Jeff	jparks@dunedinfl.net	727-298-3094	Fire Chief
Dunedin	Joan McHale	jmchale@dunedinfl.net	727-298-3198	Program Coordinator, Planning
East Lake Tarpon Fire Control District	Jamison, Tom	tjamison@elfr.org	727-784-8668	Fire Chief
Eckerd College	Mets, Lisa	metsla@eckerd.edu	727-864-8221	Vice President & Secretary of Eckerd College and Risk Manager
FDOT	Allen, Angela	angela.allen@dot.state.fl.us	813-615-8630	FPEM Emergency Operations Coordinator
FEMA - Region IV	Vigo, Gabriela	gabriela.vigo@fema.dhs.gov	229-225-4546	HMA Program Specialist, FL
Florida Emergency Management	Price, Jamie	Jamie.price@em.myflorida.com	850-413-9925 Office Cell (850) 694-6620	Lead Mitigation Planner
Florida Emergency Management	Wallick, Michael	Michael.Wallick@em.myflorida.com	850-922-0325	Mitigation Planner
FL Restaurant & Lodging Assoc.	Lynch, Dannette	dannette@frla.org	727-642-3404	Regional Director Florida Restaurant & Lodging Association
Gulfport	Taylor, Michael	mtaylor@mygulfport.us	727-893-1087	Principal Planner
Gulfport	Engel, Gerald	gengel@mygulfport.us	727-893-1020	Building Official
Hillsborough County Hazard Mitigation	Henry, Eugene	henrye@hillsboroughcounty.org	813-307-4541	CFM Manager, Hazard Mitigation Program (Floodplain Administator, LMS Coordinator, CRS Coordinator, Recovery Coordinator)
Indian Rocks Beach	Taylor, Danny	dtaylor@irbcity.com	727-517-0404	Planning and Zoning Director
Indian Shores	Dhonau, Bonnie	bdhonau@myindianshores.com	727-474-7777	Town Administrator
Indian Shores	Green, Malcom	mgreen@myindianshores.com	727-517-3940	Building Official
Indian Shores	Tidwell, Michelle	mtidwell@myindianshores.com	727-474-7785	Building Department Permit Clerk
JWB	Biddleman, Marcie	mbiddleman@jwbpinellas.org	727-453-5611	Executive Director
JWB	Waldron, Shelba	swaldron@jwbpinellas.org	727-453-5696	Program Consultant
Kenneth City	Campbell, Mathew	campbellm@kennethcityfl.org	727-498-8948	City Manager
Kenneth City	Susan L. Scrogham CMC	scroghams@kennethcityfl.org	727-498-8948	Town Clerk
Largo	Leong, Frances	Fleong@largo.com	727-587-6794 x7453	Planner
Largo	Mixson, David	dmixson@largo.com	727-587-6714	Deputy Fire Chief
Largo	Tokarz, Terry	ttokarz@largo.com	727-587-6740 Ext 2003 Office 727-430-1519 Cell	Assistant Chief - Emergency Management
Largo	Woods, Cara	cwoods@largo.com		
Largo	Waters, Stephanie	swaters@largo.com	727-587-6700 x7002	Deputy City Clerk
Maderia Beach	Rosetti, Lynn	lrosetti@madeirabeachfl.gov	727-391-9951x255	CFM Planning and Zoning Director
Maderia Beach	Chief Derryl O'Neal	doneal@medeirabeachfl.gov	(727) 391-3400 x 248	Fire Chief
Morton Plant Mease Healthcare	Clark, Carol	carol.clark@baycare.org	727-825-1753 727-820-820 (they will transfer)	Manager Safety and Security Services
North Redington Beach	Campbell, Mari	townclerk@townofnorthredingtonbeach.com	727-391-4848 727-393-0803 – Fax	Town Clerk
North Redington Beach	Lewis, Don	ceofficer@townofnorthredingtonbeach.com	727-391-4848	Code enforcement officer
North Redington Beach	Schmader, Renee	deputyclerk@townofnorthredingtonbeach.com	727-391-4848	Deputy Town Clerk
Oldsmar	Dauphinais, Marie	mdauphinais@myoldsmar.com	813-749-1122	CFM Director Planning & Redevelopment
Oldsmar	Everitt, Steven	severitt@myoldsmar.com	813-749-1147	CFM Planner

Oldsmar Fire	O'Nale, Dean	donale@myoldsmar.com	813-749-1200 Work 813-433-3402 Cell	EFO Fire/EMS Chief
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Palm Harbor Fire Dept.	Robert Markford	rmarkford@palmharborfd.com	727-784-0454	Deputy Chief
PARC	Nevitt, Missy	mnevitt@parc-fl.org	727-345-9111	Director of Operations, PARC
Pasco County	Doying, Annette	adoying@pascocountyfl.net	727-847-8137	Director of Emergency Management
Pinellas County Building & DRS	Doherty, Heather	hdoherty@co.pinellas.fl.us	727-464-3471	Engineering Service Tech II/CFM
Pinellas County Communications	Mary Burrell	mburrell@pinellascounty.org	727-464-5573	Public Information Specialist
Pinellas County Economic Development	Swank, Stacey	sswank@pinellascounty.org	727-464-7425	Business Development Manager – Marketing & Communications
Pinellas County Emergency Mgt.	Bishop, Sally	sbishop@co.pinellas.fl.us	727-464-3813	Director
Pinellas County Emergency Mgt.	Borries, Joe	jborries@co.pinellas.fl.us	727-464-3803	Emergency Operations Manager
Pinellas County Emergency Mgt. (Alt. Contact)	Peck, Debbie	dpeck@pinellascounty.org	727-464-3815	EM Coordinator
Pinellas County Emergency Mgt. (Primary Contact)	Becker, Gregory	gbecker@pinellascounty.org	727-464-3812	EM Coordinator
Pinellas County Env. and Infrastructure	Talhouk, David	dtalhouk@co.pinellas.fl.us	727-464-3780	Program Manager
Pinellas County Communications	Muhrlin, Jane	jmuhrlin@co.pinellas.fl.us	727-453-3602	Project Coordinator
Pinellas County Natural Resources	Harji, Rahim	rharji@pinellascounty.org	727-464-8760	CFM, ENV-SP Watershed Management Section Manager
Pinellas County Planning	Beardslee, Gordon	gbeardsl@pinellascounty.org	727-464-8226	Director
Pinellas County Planning	Renea Vincent	rvincent@pinellascounty.org	727-464-8200	Commuity Development & Planning Section Manager
Pinnellas County Planning	Chris Young	cyoung@pinellascounty.org	727-464-8200	Program Planner
Pinellas County Radio & Technology	Biem, Donna	dbiem@pinellascounty.org	727-582-2510	
Pinellas County Schools	Dluzneski, Dan	dluzneskid@pcsb.org	727-547-7205	EM Coordinator
Pinellas Park	Porter, Catherine	cporter@pinellas-park.com	727-369-5613	Associate Planner
Pinellas Park	Berkheimer, Gary	gberkheimer@pinellas-park.com	727-369-5802	Deputy Fire Chief
Pinellas Park	Boisvert, Suzanne	SBoisvert@pinellas-park.com	727-541-0805 x3906	Emergency Management Planner
Pinellas Planning Council	Crawford, Michael	mcrawford@co.pinellas.fl.us	727-464-8250	Interim Executive Director
Redington Beach	Clarke, Missy	townclerk@townofredingtonbeach.com	727-391-3875	Town Clerk
Redington Beach	Gamble, Andrea	deputyclerk@townofredingtonbeach.com	727-391-3875	Deputy Town Clerk
Redington Shores	Andrews, Steven	bldgdept@townofredingtonshores.com	727-397-5538	Building Official
Redington Shores	Palmer, Mary	townclerk@townofredingtonshores.com	727-397-5538	Town Clerk
Redington Shores	Herr, Patti	depclk@townofredingtonshores.com	727-397-5538	Administrative Clerk
Safety Harbor	Stenmark, Marcie	Mstenmark@cityofsafetyharbor.com	727-724-1555 X 1702	Community Development Director
Safety Harbor	Schoderbock, Mike	mschoderbock@cityofsafetyharbor.com	727-724-1555	Planner
Seminole	Ely, Mark	mely@myseminole.com	727-398-3108x106	Community Development Director
Seminole	Hockenbury, Jeremy	jhockenbury@myseminole.com	727-397-6383	Public Works Director
Seminole	Rodde, Mike	mrodde@myseminole.com	727-393-8711	Fire Marshall
Seminole	Dykens, Brad	bdykens@myseminole.com	727-393-8711 x210	Public Education Officer
South Pasadena	Schwartz, Neal	nschwartz@mysouthpasadena.com	727-871-9339	Building Planning Director
South Pasadena Fire	Saltsman, Dayton	firechief@ci.south-pasadena.fl.us	727-344-1666	Fire Chief
St. Anthony's Hospital	Nicely, John	john.nicely@baycare.org	727-825-1128	Director Facilities Management Systems
St. Pete Beach	Cooper, Bruce	b.cooper@stpetebeach.org	727-363-3927	Building Code Administrator
St. Pete Beach	Welden, Chelsey	cwelden@Stpetebeach.org	727-363-9266	Urban Planner
St. Petersburg Emergency Mgt.	Ballou, Bob	robert.ballou@stpete.org	727-893-7683	Division Chief, FPEM
St. Petersburg Construction & Permitting	Taylor, Noah	noah.taylor@stpete.org	727-893-7283	Community Rating System Coordinator
Sunstar	Eells, Brian	beells@sunstarems.com	727-582-2216	Director of Communications and Emergency Management
SWFWMD	Lloyd Roberts	Lloyd.Roberts@swfwmd.state.fl.us	352-796-7211 x4545	Senior P.E., Emergency Coordinating Officer
Tarpon Springs	Butcher, Rick	rbutcher@tsfr.us	727-938-3737 Office 727-423-0912 Cell 727-934- 0598 FAX	Fire Chief
Tarpon Springs	Robertson, Bob	rrobertson@ctsfl.us	727-942-5610	Bob Robertson, P.E. Public Services Program Manager
Tarpon Springs	Russo, Vicki	vrusso@tsfl.us_	727-942-5617	Building Development Supervisor
Tarpon Springs		amastracchio@ctsfl.us		Building Official
Tarpon Springs	Orton, Michelle	morton@ctsfl.us		Principal Planner
Tarpon Springs Housing Authority	Amon, Deb	deb.amon@tarponhousing.com	727-937- 4411 727- 279-2814 FAX	Director of Operations
1 1 -1 0	Smith, Brady	brady@tbrpc.org	727-570-5151 x42	Principal Planner
TBRPC	Silliul, Di auv		1	<u> </u>
			727-547-4575 x239	Community Improvement Director
Treasure Island	Cohen, Paula	pcohen@mytreasureisland.org	727-547-4575 x239 727-547-4575	Community Improvement Director Planner
	Cohen, Paula Lampin, Timothy		727-547-4575 x239 727-547-4575 727-582-2656	Community Improvement Director Planner UF/IFAS Extension Agent, Urban Sustainability

			Pinellas County Local Mitigation	Strategy		
	New Projects,	2016				
	Projects to be	deleted				
	<u> </u>		Appendix 9 Mitigation Initiat	tives		
Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard	Est. Cost	Timeframe / Status	Possible Funding Sources see App 11 for key to acronyms.
1710	Treasure Island	Citywide Seawall Assessment and Repair for Locations NOT listed as a separate project (street ends, etc)	Seawall repair/replacement. Estimated completion time: more than 12 months. / 4	\$630,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG
1350	Largo/Fire Rescue	Hardening Program	All City of Largo fire stations (38, 39, 40, 41, & 42) are in need of apparatus bay doors which have been designed to withstand hurricane force winds. At this time, no fire station in the city is provided with complete and adequate protection. Such retrofitting will assist with insuring personnel safety and immediate emergency response following a hurricane event. These stations are part of the fire department automatic aid program within the county. This project is not part of the approved CIP. /4	\$216,000	>FY16 (Unfunded)	
1350	Largo/Fire Rescue	Radio Upgrades	The project will upgrade the fire department's communication system to the national interoperability standard and will enable outside agencies to access the city's system in the event of an emergency. This equipment is essential to response and recovery efforts during a manmade and/or natural disaster. These radios are on fire apparatus which are part of the fire department automatic aid program within the county. This project is part of the approved CIP. /4	\$230,000	FY13	General (Local) fund and County
1340	PC Public Works	Joes Creek Watershed Management Plan	Evaulate drainage patterns withing Joes Creek watershed; identify flooding locations; develop BMPs to address the issues	\$500,000	FY2014 - FY2016	Surface Water Assessment and SWFWMD Grant

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1320	Safety Harbor	Baytowne West Lift Station	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$60,000	FY20/21	unfunded
1320	Safety Harbor	Highlands Lift Station	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$60,000	FY18/19	Local
1320	Safety Harbor	North Bayshore Lift Station	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$60,000	FY18/19	Local
1320	Safety Harbor	Amber Glades Lift Station Repair	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$120,000	FY 15/16	Local
1320	St. Petersburg/ Public Works	EOC	Design construct and equip a municipal Emergency Operations Center Facility/4	\$3,500,000	Currently Unfunded	Penney for Pinellas/Local
1320	St. Petersburg/ Public Works	EOC	Design construct and equip a municipal Emergency Operations Center Facility/4	\$3,500,000	Currently Unfunded	Penney for Pinellas/Local
1290	Largo/Fire Rescue	Fire Station 42 Replacement Program	Within the next five years, station 42 will need to be rebuilt as it is approaching the end of its useful life. In addition, the building does not meet current NFPA life safety standards or the latest hurricane design features. This station is part of the fire department automatic aid program within the county. This project is part of the approved CIP, however, the time frame has been updated. /4	\$5,000,000	<fy16 (unfunded)<="" td=""><td>Local Option Sales Tax (LOST)</td></fy16>	Local Option Sales Tax (LOST)
1290	Largo/Fire Rescue	Fire Station 38 Replacement Program	Within the next fifteen years, station 38 will need to be rebuilt as it is approaching the end of its useful life. In addition, the building does not meet current NFPA life safety standards or the latest hurricane design features. This station is part of the fire department automatic aid program within the county. This project is part of the approved CIP.	\$5,000,000	>FY16 (Unfunded)	LOST

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1290	Treasure Island	Stormwater Interceptor project in Sunset Beach and rehabilitiation of underdrain system at lots 2 and 3 and nearby areas/ 4	At lots 2 and 3 and nearby areas	\$2,780,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; SWFWMD Cooperative Funding, Nonpoint Source Implementation Grants
1270	Safety Harbor	Cypress Hallow Lift Station Repair	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$60,000	FY18/19	Local
1270	Safety Harbor	Harbor Woods Lift Station Repair	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$75,000	FY19/20	Local
1270	Treasure Island	Replacement of City Hall and seawall rehabilitation	Harden critical municipal facilities - Admin, Fire, Police Estimated completion time: more than 12 months. / 2	\$8,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG; FMAP
1255	PC Planning and Development Review Services	Sea Level Rise Vulnerability Assessment	Pinellas County Sea Level Rise Vulnerability Assessment and Adaptation Strategies / 3	\$350,000	FY 2016	TBD
1250	Indian Rocks Beach / Public Services	Stormwater Drainage	Reconstruction of small basin stormwater collection and discharge facilities as required by NPDES. All city facilities should be updated by 2017, the end of a 15 year effort and thereby in compliance with NPDES regulations. /4	\$394,000	18 to 24 months/ Currently Unfunded	City of Indian Rocks Beach Capital Improvement Plan; Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; Penny for Pinellas; SWFWMD

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1250	Largo/Police Dept.	Dispatch Center Upgrades	The project will upgrade the Largo Police Department's communication system to the national interoperability standard and will enable outside agencies to access the city's system in the event of an emergency. This communication's center is utilized during a man-made and/or natural disaster. This project is part of the approved CIP. /4	\$239,000	FY12-FY16	General Fund (Local
1250	Safety Harbor (Completed)	Hardening FS#52	Install impact-resistant windows, door, and garage doors at FS#52. /2	\$110,000	Underway	Federal, State, Local
1250	Safety Harbor (Completed)	Hardening Safety Harbor EOC	Install impact-resistant windows, and door at FS#53 EOC. /2	\$15,000	Underway	Federal, State, Local
1240	Safety Harbor	South Bayshore Lift Station and Generator	Complete Renovation of Sanitary Sewer Lift Station. / 1,2	\$125,000	FY15/16	Local
1230	Pinellas Park	Garnett & North Disston Subdivisions - 40 acre +/- tract situated between 82nd Ave, 86th Ave & 46th St, 49th St	Install a stormwater collection and conveyance system in a subdivision originally develped in the 1960's and 70's. This would eliminate issues of localized flooding and dangerous stormwater inlets. /1	\$4,028,386	Funded	Funding for the current phase is from a combination of funding sources including SWFWMD, FDOT & local coffers.
1220	Treasure Island	Provide ten 10.5 and 5 hp pumps and controls to city lift stations	(Lift Station 7 -\$250,000)( Lift Station 9 - \$250,000)(Lift Station 8 - \$250,000)(Lift Station 6 - \$250,000) Harden critical municipal facilities - Estimated completion time: more than 12 months. / 4	\$1,000,000	Partially Funded by City	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning

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1190	Indian Rocks Beach	Dune Walkovers	Existing /old walkovers hinder growth of vegetation and hinder proper dune protection. Project will transition from step to low profile walkovers to elevated walkovers that will promote growth of vegetation into mature dunes. The locations are the 6th Ave., 17th Ave., and 22nd Ave Dune Walkover Projects. 3	\$114,000	Currently Unfunded	FDEP; Pinellas County Coasta Management; Penny for Pinellas
1190	St. Petersburg/ Public Works	Snell Isle & Raphael Blvd NE Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$3,400,000	FY15 - FY18	Penney for Pinellas/Local
1190	St. Petersburg/ Public Works	94th Ave. at Tinney Creek Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$1,500,000	FY14 - FY18	Penney for Pinellas/Local
1190	St. Petersburg/ Public Works	Snell Isle & Raphael Blvd NE Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$3,400,000	FY15 - FY18	Penney for Pinellas/Local
1190	St. Petersburg/ Public Works	94th Ave. at Tinney Creek Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$1,500,000	FY14 - FY18	Penney for Pinellas/Local
1180	Safety Harbor	City Hall Window Replacement	Replace City Hall windows with wind resistent / impact resistent product. /2	\$150,000	FY16/17	Local
1180	Tarpon Springs Housing Authority	Emergency Operations Generator	Emergency generator to allow operations during state of emergency, power outages or other events of power loss. 1 & 2	\$60K	Currently Unfunded	CDBG, HUD
1170	Indian Rocks Beach / Public Services	Stormwater Reconstruction	Implementation of Best management Practices in the 6th Ave Drainage Basin. /4	\$160,000	Currently Unfunded	Local Option Sales Tax Fund Capital Project; Capitalization grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants

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1170	Largo	LMC Roof Replacement and Hardening	In response to a facility study, the City of Largo needs to replace its existing roof systems on both the city hall and police station as well as provide structural hardening of both facilities for hurricane-survivability. This project is part of the approved CIP. /4	\$5,700,000	FY12/13	General (Local) fund and LOST
1170	St. Petersburg/ Public Works	Oak Street NE and Gandy Blvd Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$1,000,000	FY16- FY18	Local
1160	Clearwater / Stormwater	Hillcrest Avenue Bypass Culvert	Installation of 2000 LF of 6.5' X 11' box culvert.  Model results provide flood relief for 47 homes  adjacent to creek.	\$4,000,000	Currently in design but construction is unfunded	CITY OF CLEARWATER CIP/ STROMWATER UTILITY FUND
1160	Largo/Public Works - Streets & Drainage	Road Clearing Equipment	In the event of a hurricane or other disaster where the city is required to clear major streets, the city's current equipment is insufficient. The City of Largo is requesting multiple plow attachments that can be deployed in the event of a disaster. This project is part of the approved CIP. /4	\$80,000	FY13	General Fund (Local
1160	Reclamation	Flood Proofing and Hardening of Sanitary Sewer Lift Stations	Storm proof and retrofit eight existing sanitary sewer lift stations within the flood plain. Estimated completion time: more than 12 months. / 1, 2	\$400,000	Currently Unfunded	EMPATF; HMGP; PDM Program
1160	PC EMS/Fire Adm.	Roofing ComCen and Radio Room	Replace roof on comms center and adjoining radio room. Estimated completion time: more than 12 months. / 4	\$150,000	Currently Unfunded	TBD
	Gulfport	Hardening of Critical Facilities	Install window protection devices and storm-resistant exterior doors in the City's lift stations. Estimated completion time; less than 12 months. / 2	\$7,000	_	EMPATF, HMGP; PDM Program; Municipal Funding
1155	PC EMS/Fire Adm.	A/C Radio Room	Replace A/C for radio & server rooms. Estimated completion time: more than 12 months. / 4	\$300,000	Currently unfunded	
1150	Bayfront Medical Center / St. Petersburg	Harden Window Openings - Building A	Harden the exterior of Building A and install new hurricane-	\$1,217,370	_	EMPATF, HMGP; PDM Program

	-		Appendix 9 Mitigation Initiat	tives		
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1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C Center	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$2,789,889	Currently Unfunded	EMPATF, HMGP; PDM Program
1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C South	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,575,295	Currently Unfunded	EMPATF, HMGP; PDM Program
1150	Bayfront Medical Center / St. Petersburg	Harden Window and Roof - Building C North	Harden the exterior including hurricane-rated windows and roofing system to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$4,646,281	Currently Unfunded	EMPATF, HMGP; PDM Program
1150	PC Public Works	Span Wire Intersection Replacement Program	Replacement of 24 existing span wire intersectons with mast arms. Intersections are along major evacuation routhes throughout Pinellas County. Approx \$240k per intersection. Estimated completion time: more than 12 months. / 4	\$5.8 million	Unfunded	Seeking Pre-Disaster Mitigation Program grant funds
1150	Pinellas Park /Public Worlks	Sorm Hardening Preparedness Study	Consultant study to evaluate hardening structures for Public Works equipment protection / 4	\$25,000	12 Months / FY2015- 2016	Infrastructure Sales Tax
1130	Gulfport	Fire Station/ EOC Generator	Replace aging generator for the Fire Station/EOC. Estimated completion time: less than 12 months. / 4	\$50,000	Currently Unfunded	EMPATF
1130	PC Public Works	Stormwater Conveyance System Improvement Program (921321)	Replace/reline inadequate or deteriorating stormwater conveyance systems county wide. Estimated completion time: more than 12 months. / 1	\$34,225,000	FY2015 - FY2024 In Progress	Penny for Pinellas
1130	St. Petersburg/ Public Works	4th St & 14th Ave N to Cresent Lake Storm Drainage Improvements	Design and construct larger conveyance piping to reduce street flooding 1 & 3	\$1,900,000	FY 15 - 19	Penney for Pinellas/Local
1130	St. Petersburg/ Public Works	4th St & 14th Ave N to Cresent Lake Storm Drainage Improvements	Design and construct larger conveyance piping to reduce street flooding	\$1,900,000	FY 15 - 19	Penney for Pinellas/Local

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1130	Tampa Bay Regional Planning Council / Pinellas County	Regional Public Education Initiative	With Pinellas County Emergency Management develop a county-wide public education program to address preparation and mitigation actions for all hazards related to hurricanes. All jurisdictions will benefit from this effort. Estimated completion time: less than 12 months. / 4	\$75,000	Currently Unfunded	EMPATF, HMGP, PDM Program
1120	PC Public Works	Cross Bayou Improvements	Improve conveyance through Cross Bayou Canal and reduce duration of flooding. Removed material should be tested to account for pollutant removal. Estimated completion time: more than 12 months	\$6,770,000	FY2014 - FY2019	Penny for Pinellas
1110	Redington Shores / Emergency Management	Electric Roll-Up Impact Shutters for Town Hall EOC (Critical Facility)	Town Hall /EOC updates to existing for expedited response to emergency by reducing labor commitment and with revised Wind & Impact loads per current codes, located at 17425 Gulf Blvd. Estimated completion time: less than 12 months.	\$50,000	Currently Unfunded	EMPATF, HMGP; PDM Program
1090	Bayfront Medical Center / St. Petersburg	Harden Cancer Care Center	Harden the exterior including the roof, windows and walls to ensure continuity of operations. Estimated completion time: more than 12 months. / 2	\$430,003	Currently Unfunded	EMPATF, HMGP; PDM Program
1090	Gulfport	Stormwater Project	Enlarge drainage pipes and construct retention ponds citywide to reduce street and yard flooding to improve drainage in low lying areas of the City. Estimated completion time: more than 12 months. / 1	\$500,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
1090	PC Public Works	118th Avenue Expressway (1618)	Build east-west evacuation route parallel to Ulmerton Rd. Estimated completion time: more than 12 months. / 4	\$37,926,500	FY2012 - FY2017	Penny for Pinellas
1070	Bayfront Medical Center / St. Petersburg	Harden West Lobby	Harden the roof and curtainwall window assembly to protect against high wind velocity events. Estimated completion time: more than 12 months. / 2	\$1,250,200	Currently Unfunded	EMPATF, HMGP; PDM Program
1070	Pinellas Park /Public Worlks	Northfield Manor Subdivision Drainage Improvements	Improve drainage in a 30 acre area: 102nd Avenue from 60th Street to 62nd Street / 1	\$4,125,000	36 to 48 months Design FY 2016- 2017 Construction FY2017-2018 and 2018-2019	Infrastructure Sales Tax

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1070	Treasure Island	Emergency Generator	Mobile emergency generator to be used at lift stations during a power outage/ 4	\$56,000	18 to 24 months/ Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds: CDBG;FMAP;HMGP Nonpoint Source Implementation Grants; HMGP Planning
1060	Lealman SFCD / Emergency Management	Fire Station #18 EOC Hardening	Harden by installing rolldown shutters, 5 double doors, 3 single doors and 16 windows. Estimated completion time: more than 12 months. / 2	\$36,500	Currently Unfunded	
1060	Pinellas Park/ Public Works	72nd Ave. Channel Culverting	Install a stormwater culvert at the headwaters of Pinellas Park Water Mgt. District Channel 3A to eliminate localized flooding. Additionally, this improvement would remove a hazard which when over t's banks can totally submerge a car and eliminate the opportunity for people and children to be caught up in moving waters. /1	\$5,500,000	Currently Unfunded	Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program
1050	Clearwater / Stormwater	Salls Lake Park Stormwater Improvements	1 (Stormwater improvements)	\$300,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
1050	Indian Rocks Beach / Building Dept.	Flood Mitigation Buyout	Provide a grant of up to \$15,000 per structure for the removal of noncompliant pre-FIRM structures. / 1	\$150,000	Currently Unfunded	FMAP; HMGP; PDM Program
1050	Pinellas Park/ Public Works	Jan Cory Subdivision Drainage	Install a stormwater collection and conveyance system in a subdivision originally develped in the County In the 1960's and 70's. This would eliminate issues of localized flooding and dangerous stormwater inlets. /1	\$3,365,000	Currently Unfunded	Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program

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1050	Redington Shores / Emergency Management	Flood proofing, Tie - Down or Re- elevation of Town Hall EOC (Critical Facility)	Town Hall /EOC updates to existing for Coastal High Hazard AE zone located at 17425 Gulf Blvd. Estimated completion time: more than 24 months.	\$2,150,000	_	EMPATF, HMGP; PDM Program
1050	Safety Harbor (Completed)	PW Dewatering Pump	Double Diaphragm Pump used to well point and pump down ponds and flooded areas. /1	\$18,000	FY14/15	Local
1045	Clearwater / Stormwater	East Gateway Stormwater Improvements	1 (Stormwater improvements)	\$2M		SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
1040	Clearwater / Engineering	Fire Station Retrofit	Harden mainland fire stations. Estimated completion time: more than 12 months. / 2	\$200,000	Currently Unfunded	EMPATF, HMGP; PDM Program
1040	Tarpon Springs Housing Authority	Landscape Restroration	Trimming of Palm, Planting of Sod & Shrubs, Repair of Erosion and Control of Runoff	\$52K	Currently Unfunded	CDBG, HUD
1040	Tarpon Springs Housing Authority	Door & Window Upgrades	Door & Window Replacements to meet current wind codes & to improve energy efficiency.	\$90K	Currently Unfunded	CDBG, HUD
1035	Gulfport	Flood Mitigation in Waterfront Redevelopment District	Construct storm doors for commercial businesses within the 100-year floodplain of the Waterfront Redevelopment District. Estimated completion time: more than 12 months. / 1	\$60,000	Currently Unfunded	EMPATF, HMGP; PDM Program
1030	Gulfport	Land Acquisition	Public purchase of properties that are floodprone or at high risk/exposure to being flooded or experience wave action/erosion. Estimated completion time: more than 12 months. / 1	\$500,000		EMPATF, HMGP; PDM Program
1030	Indian Rocks Beach / Public Services	Liftstatio Rehabilitiation	The City Indian Rocks Beach rehabilitates critical facility Lift Stations on a 10 year cycle for increased resiliency against flood waters and wind. All pumps, stands, discharge risers, valves, and slide rails are replaced /1	\$179,000	Currently Unfunded	Local, SWFWMD Grant, EMPATF, HMGP, PDM Program, Capitalization Grants for Clean Water State Revolving Funds, CDBG, Non Point Source Implementation funds
1030	Indian Shores / Town Administrator	Critical Facility Rebuild	Build new town hall, police department and annex buildings. Estimated completion time: more than 12 months. / 2	\$3,500,000	Currently Unfunded	FMAP; HMGP; PDM Program

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1030	Safety Harbor	Lower Mullet	Design of the Lower Mullet Creek project. Water	\$300,000	12-18 months	unfunded
		Creek Project	Quality and Flooding. /1,3,4			
1030	South Pasadena / Public Works	City Hall Window Protection	Install protective window film on all windows in City Hall. Estimated completion time: less than 12 months. / 2	\$50,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
1025	Baycare, Inc. / St. Petersburg	Hospital EOC	Construct new EOC. Estimated completion time: more than 12 months. / 4	\$1,100,000	Currently Unfunded	EMPATF, HMGP; PDM Program
1025	Clearwater / Stormwater	Byram Ditch Bank Stabilization	3. Stabilization of approximately 1500LF of creek bank to protect against erosion.	\$300,000	Currently in design but construction is unfunded	CITY OF CLEARWATER CIP/ STROMWATER UTILITY FUND
1020	Clearwater / Stormwater	Virginia Groves/Moccasin Lake Stormwater Improvements	1 (Stormwater improvements)	\$1,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
1020	PC Public Works	Roosevelt Channel 5 improvements	Various BMPs from the 1981 Watershed Master Plans, Removal of salinity barrier	\$3,500,000	FY2015 - FY2019 In Progress	Penny for Pinellas
	PC Public Works	Pinellas County Stormwater Facilities (Countywide)	1,2,3	\$1,170,000	FY2016-2018	Penny for Pinellas
1020	PC Public Works	McKay Creek Drainage/Hickory	1,2,3	\$1,000,000	FY2015-2017	Penny for Pinellas/FDOT

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1020	Pinellas Park/ Public Works	Fairlawn Subdivision Drainage	Install a stormwater collection and conveyance system in a subdivision originally developed in the County in the 1960s and 70s. This would eliminate issues of localized flooding and dangerous stormwater inlets. /1	\$1,500,000	Currently Unfunded	Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program
1015	Gulfport	Municipal EOC	Build a new City EOC, 1617 - 49th Street South. Estimated completion time: more than 12 months. / 4	\$3,500,000	Currently Unfunded	HMGP; PDM Program
1010	Clearwater / Stormwater	Druid Road Stormwater Improvements	Upgrade the existing sub-standard system within a     100 acre urban drainage basin.	\$4,000,000	Currently in design but construction is unfunded	CITY OF CLEARWATER CIP/ STORMWATER UTILITY FUND
1010	Maderia Beach	850 Bay Point Dr	Mitigation of SRL Property 850 Bay Point Drive	\$200,000	Unfunded	HMGP & Private
1010	Maderia Beach	822 Bay Point Dr	Mitigation of SRL Property 822 Bay Point Drive	\$200,000	Unfunded	HMGP & Private
1010	South Pasadena / Public Works	Finish Mast Arms on Evac Route	Install mast arms at 3 remaining locations on Pasadena Avenue. Estimated completion time: less than 12 months. / 2	\$1,500,000	Currently Unfunded	FDOT; EMPATF, Hazard Mitigation Grant Program; PDM Program.
1000	Bayfront Medical Center / St. Petersburg	Harden Mechanical Room & Medical Gas Enclosure - Building B/C	The Mechanical Room and a fenced lean to will be hardened. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program
1000	St. Petersburg/ Public Works	8th Ave. S. & 44th St. S. Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$4,500,000	FY15 - FY18	Penney for Pinellas/Local
1000	St. Petersburg/ Public Works	8th Ave. S. & 44th St. S. Storm Drainage Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$4,500,000	FY15 - FY18	Penney for Pinellas/Local
995	Bayfront Medical Center / St. Petersburg	Building C Boiler / Chiller Plant Hardening & Rooftop Equipment Mitigation	The hospital's boiler & chiller plant needs hardening for severe weather mitgiation. Estimated completion time; More than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program

	Appendix 9 Mitigation Initiatives								
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995	Bayfront Medical Center / St. Petersburg	Tank Farm Enclosure	On the South side of Building C, the Oxygen Tank Farm will be hardened. Estimated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program			
995	Bayfront Medical Center / St. Petersburg	Life Services Building Window, Door & Wall Hardening	The Life Services Building needs windows, doors and walls hardenned for ptoection against high wind veloctiy and severe weather events. Estmated completion time; more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program			
995	Gulfport	Thermal Imaging Camera	Purchase thermal imaging camera for post-storm search and rescue and hazard abatement. Estimated completion time: less than 12 months. / 4	\$20,000	Currently Unfunded	EMPATF			
995	Oldsmar / Public Works; Facilities	Harden/Retrofit City Hall	Replace windows at city hall. Estimated completion time: less than 12 months. / 2	\$150,000	Currently Unfunded	FMAP; HMGP; PDMP			
995	Oldsmar / Public Works; Storm Water	Mitigation/ Response/ Recovery Equipment	Purchase vacuum excavation system for the maintenance and recovery of all storm water inlets and structures. Estimated completion time: less than 12 months. / 1	\$50,000	Currently Unfunded	EMPATF; HMGP; PDM Program			
990	Bayfront Medical Center / St. Petersburg	Child Development Center Wind, Door & Roof Hardening	Harden windows, doors and roof for hurricane and severe weather mitigation. Estimated completion time: more than 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program			
990	Indian Rocks Beach / Public Services	Small Generators	Purchase of 3 generators for emergency power. Estimated completion time: less than 12 months. / 4	\$87,000	Currently Unfunded				
980	Bayfront Medical Center / St. Petersburg	Family Health Center Structural Hardeninig	Harden walls and roof to mitigate high wind velocity. Estimated time of completion: 12 months. / 2	\$1,000,000	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program			
980	Bayfront Medical Center / St. Petersburg	Haden Exterior - Building C East - Area 4	Harden the exterior of Building C East - including hurricane- rated windows, walls, doors and roofing system to protect against high wind veloctiy events. / 2	\$3,070,827	Currently Unfunded	Emergency Management, Preparedness and Assistance Trust Fund, HMGP; PDM Program			
980	Belleair / Support Services	Town Hall Storm Mitigation	Mitigate town hall (901 Ponce de Leon Blvd.). Estimated completion time: more than 12 months. / 2	\$40,000	Currently Unfunded	EMPATF, HMGP; PDM Program			
980	Clearwater / Engineering	Municipal EOC	Construct an emergency operations center at 1700 N. Belcher Rd. Estimated completion time: more than 12 months. / 4	\$1,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program			

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980	Lealman SFCD / Emergency Management	Fire Station #19 Secondary EOC Hardening	Harden by adding rolldown shutters, 4 single doors and 5 windows. Estimated completion time: more than 12 months. / 2	\$12,700	Currently Unfunded	
980	Pinellas Park/ Public Works	Relocation or Construction of FS 34	Fire Station #34 at it's present location can not effectively service the geographic area which it originally serviced due to unanticipated growth and expansion. It is necessary to either relocate FS 34 or construct another station to serve the western third of the community. /4	\$7,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program; & local funds
970	Belleair Bluffs	City Hall Storm Shutters	Install commercial roll-down storm shutters to protect city hall and the fire department. Estimated completion time: more than 12 months. / 1	\$45,000	Currently Unfunded	EMPATF, HMGP; PDM Program
970	Clearwater / Stormwater	Elizabeth Pond Stormwater Improvements	1 (Stormwater improvements)	\$1,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
970	Clearwater / Stormwater	Clearwater Beach Ponds Stormwater Improvements	1 (Stormwater improvements)	\$250,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
970	Dunedin / Public Works	City Hall Shutters	Install hurricane shutters on City Hall (542 Main Street). Estimated completion time: less than 12 months. / 2	\$7,000	Currently Unfunded	EMPATF, HMGP; PDM Program
970	Dunedin / Public Works	Lift Station Elevation & Retrofit	Harden & upgrade 12 lift stations for waste water. Estimated completion time: more than 12 months. / 1	\$300,000	Currently Unfunded	EMPATF, HMGP; PDM Program
970	Eckerd College / St. Petersburg	Building Flood/Wind Retrofit	Retrofit priority support building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$50,000	Currently Unfunded	EMPATF, HMGP; PDM Program
970	Indian Rocks Beach / Public Services	Small Basin Reconstruction	Rebuild small basin area to provide proper drainage and improve pedestrian and transportation safety. Estimated completion time: less than 12 months. / 1	\$375,000	Currently Unfunded	Penny for Pinellas
970	Oldsmar / Public Works; Facilities	Critical Facility Generator Retrofit	Replace electrical generating equipment at Water Reclamation Facility. Estimated completion time: less than 12 months. / 4	\$1,200,000	Currently Unfunded	State Revolving Funds, CDBGs; FMAP; HMGP; HMGP Planning

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970	PC Emergency Commun.	Public Safety Radio & Data System (722)	Upgrade and enhancement of radio system and facilities. Conversion to Smart Zone technology and complete performance capabilities specified by the Police Standards Council' Tech. Adv. Group. /4	\$17,500,000	FY2012 - FY2017	Pinellas for Pinellas; Moving Violation Fees
970	Pinellas Park / Public Works	Structure Hardening - Forbes Recreation Center	Harden the recreation center to be used for sheltering and operations during and after a storm event. Estimated completion time: more than 12 months. / 2	\$775,000	Currently Unfunded	EMPATF, HMGP; PDM Program; & local funds
970	Pinellas Park/ Police & Fire Administration	PD & FD Headquarters Consolidation	To develop at one location a facility to house the Police & fire Administrations as well as provide for a central first responders EOC that will also serve as the secondary EOC for the City. The structure will be built to withstand natural threats, allow for a centralized communication facility, and reduce the cost and increase the efficiency of coordination between these entities. Existing facilities exhibit varing degrees of vulnerability to hurricanes and storm surge. The proposed area in which this facility would be located is currently under served and holds great potential for a serious event. /4	\$12,580,000	Currently Unfunded	EMPATF, HMGP; PDM Program; & local funds
970	Redington Beach / Public Works	Repair intracoastal causeway seawalls	Repair and maintenance of intracoastal sea walls. Estimated completion time: more than 24 months. / 3	\$175,000	Town Reserves	Town reserves
970	Treasure Island	Wind Retrofit of critical facilities	Harden critical municipal facilities including: PWorks Admin, PWorks Garage. Estimated completion time: more than 12 months. / 2	\$100,000	Funded by City	EMPATF, HMGP; PDM Program;
970	Treasure Island	KingfishPark Seawall Rehabilitation	Repair/replace seawall : Estimated completion time: less than 12 months. / 3	\$45,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG
960	Clearwater / General Services	Install Communications at Fire Training 48	Install radio tower at the new fire training building, install wireless comms, install backup radio communications. Estimated completion time: more than 12 months. / 4	\$200,000	Currently unfunded	EMPATF, HMGP; PDM Program

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960	Clearwater / Stormwater	Channel E/Forest Wood Estates Stormwater Improvements	1 (Stormwater improvements)	\$1,500,000		SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
960	Redington Shores / Sewer Department	Flood and wind retrofit of lift stations	Storm proof sanitary sewer lift stations (3). Estimated completion time: less than 12 months. / 1	\$550,000	SWFWMD Grant and Town C.I.P. 2008- 2009.	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning
960	St. Petersburg/ Public Works	MLK Street N. & Gateway Mall Stormwater Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$7,300,000	FY10 - FY16	Penney for Pinellas/Local
960	St. Petersburg/ Public Works	MLK Street N. & Gateway Mall Stormwater Improvements	Project will construct large conveyance piping to reduce street and property flooding. /1	\$7,300,000	FY10 - FY16	Penney for Pinellas/Local
950	Clearwater / Stormwater	Channel G Flood Detention Area	1 (Stormwater improvements)	\$20,000,000		SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
950	Clearwater / Stormwater	Mango Avenue Stormwater Improvements (Bypass Culvert)	Upgrade the existing sub-standard system within a     24 acre suburban drainage basin.	\$2,000,000	Currently in design but construction is unfunded	CITY OF CLEARWATER CIP/ STROMWATER UTILITY FUND
950	Oldsmar / City Clerk; IT	COOP Document Imaging	Document management program utilizing scanning and digitization of vital records for off-site storage and retrieval. / 4	\$75,000	1	EMPATF; HMGP; PDM Program
950	Oldsmar / Public Works; TECO	Bury Utilities Underground	Bury the overhead electric, telephone and cable TV utility lines in the Community Redevelopment District. Estimated completion time: more than 12 months. / 2	\$2,000,000	Currently Unfunded	

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950	PC EMS/Fire Adm.	Hardening of Sunstar Communications Center	Harden north wall of communication center and enclose south alleyway. Estimated completion time: more than 12 months. / 2	\$310,000	Currently Unfunded	TBD
950	South Pasadena / Public Works	Generators	Install emergency generator at city hall. Estimated completion time: less than 12 months. / 4	\$60,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program; Penny for Pinellas
945	Pinellas Park/ Public Works	Link 68th Street and Canal Street	Link 68th Street and Canal Street by installing a bridging system and connecting road approaches. This connection will afford secondary access and escape to two areas. The first being the western estension of 102nd Avenue which is the neighborhood of Cross Bayou Elementary School, Hospice of Pinellas Park, an ALF and a MHP. The other area is aindustrial subdivision which is currently only accessible from Bryan Dairy Road. This connection will provide a secondary point for fire and emergency vehicle access. /4	\$750,000	Currently Unfunded	Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program
945	St. Petersburg / Water Resources Dept	Retrofit of Northwest Water Reclamation Facility	Harden exterior walls; provide proper deck attachment and beam ties to foundation; hurricane shutters; new roofing; add pilasters to screen block at carport; additional wall reinforcement. Estimated completion time: more than 12 months. / 2	\$70,000	Currently Unfunded	HMGP and Local
945	St. Petersburg / Water Resources Dept	Retrofit of Northwest Water Reclamation Facility	Harden exterior walls; provide proper deck attachment and beam ties to foundation; hurricane shutters; new roofing; add pilasters to screen block at carport; additional wall reinforcement. Estimated completion time: more than 12 months. / 2	\$70,000	Currently Unfunded	HMGP and Local
940	Clearwater / Stormwater	Channel C Treatment Pond Conversion (water quality)	1 (Stormwater improvements)	\$1,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund

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940	Eckerd College / St. Petersburg		Retrofit academic building to address vulnerabilities to high winds and/or flooding based on engineering evaluation. Estimated completion time: more than 12 months. / 1, 2	\$250,000	Currently Unfunded	EMPATF, HMGP; PDM Program
940	Indian Rocks Beach / Planning & Zoning Dept.	Beach Management Plan Implementation	Establish a dune and erosion control system using native vegetation. Estimated completion time: more than 12 months. / 3	\$150,000	Currently Unfunded	Capitalization Grants for Clea Water State Revolving Funds CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGI Planning
940	Oldsmar / Public Works; Engineering	Storm Water Management Plan	Prepare a citywide drainage plan to minimize flooding throughout the City. Estimated completion time: more than 12 months. / 1	\$100,000	Curently Unfunded	FMAP; HMGP; PDM Program
940	Pinellas Park / Public Works	Hardening - Public Works / Technical Services Building	Harden the Public Works/Technical Services Building for sheltering and operations. Estimated completion time: more than 12 months. / 2	\$950,000	Currently Unfunded	HMGP, EMPATF, and local funds (ie Penny for Pinellas)
940	Tampa Bay Regional Planning Council / Pinellas County	Post-Storm Evaluation of the Regional Evacuation Study	Evaluate the evacuation study to identify any descrepancies in the predicted and observed elements of the Regional Plan. Estimated completion time: less than 12 months. / 4	\$90,000	Currently Unfunded	EMPATF, HMGP; PDM Program
940	Treasure Island	City Hall Seawall Rehabilitation	Repair/replace seawall adjacent to critical facilities: Estimated completion time: more than 12 months. / 3	\$660,000	Currently Unfunded	EMPATF, HMGP; PDM Program; CDBG

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940	Treasure Island	Lift Station #4 - Refurbishment	Elevation of Controls & Electrical Equipment in Lift Station #4 Estimated completion time: more than 12 months. / 4	\$823,300	City	Capitalization Grants for Clear Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGF Planning
930	Clearwater / Stormwater	Alligator Creek Channel Improvements	1 (Stormwater improvements)	\$2,500,000		SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
930	Clearwater / Stormwater	Channel H Stabilization	1, 3	\$1,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
930	PARC	Disabilities Registration	Provide computerized pre-registration for individuals with severe developmental disabilities. Estimated completion time: less than 12 months. / 4	\$25,000	Currently Unfunded	
930	PC Public Works	Sun Seair MHP	Reduce flooding at the Sun Seair MHP through conveyance improvements and construction of a wet detention pond. Estimated completion time: more than 12 months	\$1,075,000	FY2015 - FY2018 In Progress	Penny for Pinellas
930	St. Petersburg / Stormwater, Pavements and Traffic Operations Dept	Backflow Prevention Stormwater Vaults	Project design, permitting and construction of flood protection vaults for City repetitive loss neighborhood. 47 vaults are planned for installation. / 1	\$2,855,000	FY16- FY18	PDM Program
930	St. Petersburg / Stormwater, Pavements and Traffic Operations Dept	Backflow Prevention Stormwater Vaults	Project design, permitting and construction of flood protection vaults for City repetitive loss neighborhood. 47 vaults are planned for installation. / 1	\$2,855,000	FY16- FY18	PDM Program
925	Belleair Beach / Public Works	Traffic Light Mitigation	Replace traffic control light at the corner of Causeway Blvd and Gulf Blvd with a mast arm. Estimated completion time: / 4	\$447,000		EMPATF, HMGP; PDM Program Penny for Pinellas

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920	Dunedin / Public Works	Library Retrofit	Install hurricane shutters on Library Facility (223 Douglas). Estimated completion time: more than 12 months. / 2	\$95,000	Currently funded with HMGP	EMPATF, HMGP; PDM Program
920	PARC / St. Petersburg	Special Needs Shelter Retrofit	Harden PARC building to serve as a safe multi-hazard shelter including an emergency operation center. Estimated completion time: more than 12 months. / 2	\$4,000,000	Currently Unfunded	
920	PC Parks & Conservation Resources	Alligator Lake Habitat Restoration (845)	Comprehensive ecosystem restoration project for wetland and upland creation and enhancement and stormwater polishing. /2	\$180,000	FY2012 - FY2017	Grant; Local funds; SWFWMD
920	PC Public Works	ATMS/ITS Countywide System Program (1501)	Construct County advanced traffic management system/intelligent transportation system for traffic control. Estimated completion time: more than 12 months. / 4	\$4,250,000	FY2014 - FY2024	Penny for Pinellas/Local Option Gas Tax
920	Pinellas Park / Public Works	Hardening - Fire Station 35	Harden the station by stiffening the trusses and strapping them to the foundation, replacing garage doors, adding shutters, and replacing the roof. Estimated completion time: more than 12 months. / 2	\$800,000	Currently Unfunded	EMPATF, HMGP; PDM Program
915	Indian Shores / Town Administrator	Seawall Erosion Control	Reconstruct seawall with tiebacks at Intra Coastal Waterway and Town Street. Estimated completion time: more than 12 months. / 3	\$160,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
915	South Pasadena / Public Works	Bury Utilities	Bury utilities on all streets. Phase I - main roads \$1,500,000. Phase II - \$2,000,000. Estimated completion time: more than 12 months. / 2	\$3,500,000	Currently Unfunded	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning
910	Belleair Beach / Public Works	Stormwater Management	Stormwater repairs, improvements, and replacing curbwork. Replace valley curbs Estimated completion time: more than 12 months. / 1	\$55,000	Currently Underway	Local Funds and SWFWMD Cooperative Funding Grant
910	Clearwater / Public Services	Hardened Public Works Crew Room	Provide shutters and door coverings; install generator for power backup. Estimated completion time: more than 12 months. / 2	\$80,000	Currently unfunded	EMPATF, HMGP; PDM Program

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910	Clearwater / Stormwater	Channel C Conveyance Improvements	1 (Stormwater improvements)	\$25,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
910	Kenneth City	Retrofit of Critical Facility	Install storm shutters on police department and city hall. Estimated completion time: more than 12 months. / 2	\$46,000	Currently Unfunded	EMPATF, HMGP; PDM Program
910	Kenneth City	Stormwater Management	Repair, rework, and replace components in the Kenneth City storm drain system. Estimated completion time: more than 12 months. / 1	\$300,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
910	Kenneth City	Stormwater Management	Repair, rework, and replace components in the Kenneth City storm drain system. Estimated completion time: more than 12 months. / 1	\$500,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
905	Pinellas Park/ Public Works	Primary EOC and Storm Safe Parking Facility	Develop a storm safe multi-level parking garage with the City's Primary EOC atop of the structure. The EOC would be situated above both storm surge and 100 year floodplain hazards and be constructed to be wind resistent. The elevated status would provide for self sufficiency by utilizing solar and wind energy to supplement the local power company source when power failure occurs. Additionally the structure would be constructed to protect response vehicles of personnel that are housed at the City Shelter next door. The structure would also be able to serve as a support feature for downtown development and support a future rail or BRT stop since the proposed site is near Park Station. /4	\$4,500,000	Currently Unfunded	HMGP, EMPATF, and local funds (ie Penny for Pinellas)
900	Clearwater / Public Utilities	Purchase trailer mounted antenna	Purchase antenna for citywide telemetry system for monitoring lift stations, water and wastewater plants. Estimated completion time: less than 12 months. / 1	\$75,000	Currently unfunded	EMPATF, HMGP; PDM Program

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900	Clearwater / Public Utilities	Northeast Water Pollution Control Plant generators	Procure seven backup generators to maintain the generator reliability. Estimated completion time: less than 12 months. / 4	\$950,000	Currently unfunded	EMPATF, HMGP; PDM Program
900	Largo	Public Works EOC Retrofit	Harden public works administration building. Estimated completion time: more than 12 months. / 2	\$89,151	In process of work to begin, bidding on the job has been completed.	EMPATF, HMGP; PDM Program
900	Largo	Acquisition of Repetitive Loss Properties	Acquire repetitive loss properties along McKay and Allen's Creek. Estimated completion time: more than 12 months. /	\$300,000	Ongoing, the city currently has 7 repetitive loss properties left.	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
900	Largo	Critical Facilities Retrofit and Generators	Harden the Largo city hall, police, and EOC buildings. Estimated completion time: more than 12 months. / 2	\$321,285	Currently Unfunded	EMPATF, HMGP; PDM Program
900	North Redington Beach / Public Works	Mobile Generators for Lift Stations	Procure 2 portable generators for secondary lift stations. Estimated completion time: less than 12 months. / 4	\$15,000	Currently Unfunded	FMAP; HMGP; PDM Program
890	Madeira Beach	Critical Facilities Retrofit and Generators	Upgrade to secondary EOC. Estimated completion time: more than 12 months. / 4	\$15,000	Currently Unfunded	FMAP; HMGP; PDM Program
890	Madeira Beach	Critical Facilities Retrofit and Generators	Harden city hall with emergency storm shutters. Estimated completion time: more than 12 months. / 2	\$25,000	Currently Unfunded	EMPATF, HMGP; PDM Program
890	Madeira Beach	Stormwater Management	Install 20 flap valves to reduce tidal backup in storm drains. Estimated completion time: less than 12 months. / 1	\$150,000	Currently Unfunded	FMAP; HMGP; PDM Program
890	Madeira Beach	Flood and Wind Retrofit of City Hall/ Public Works	Flood-proof existing city hall complex and harden the building. Estimated completion time: more than 12 months. / 1	\$300,000	Currently Unfunded	EMPATF, HMGP; PDM Program
890	Morton Plant Hospital / Clearwater	Hospital Retrofit	Replace the lower roof of Witt South building at Morton Plant Hospital. Estimated completion time: more than 12 months. / 2	\$400,000	Currently Unfunded	FMAP; HMGP; PDM Program

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890	Morton Plant Hospital / Clearwater	Hospital Retrofit	Replace windows at Morton Plan Hospital's Adler/ Women's Center Estimated completion time: more than 12 months. / 2	\$680,000	Currently Unfunded	EMPATF, HMGP; PDM Program
890	Pinellas Park / Fire Dept.	Community Emergency Response Team (CERT).	Supply CERT Training to 60 trainees. Estimated completion time: less than 12 months. / 4	\$30,000	Currently Unfunded	EMPATF, HMGP; PDM Program, and local funds (i.e., Penny for Pinellas)
890	St. Petersburg / Water Resources Dept.	Retrofit of Cosme WTP	Provide shear resisting structural augmentation; replace roof; hurricane shutters. Estimated completion time: more than 12 months. / 2	\$89,500	Currently Unfunded	HMGP and Local
890	St. Petersburg / Water Resources Dept.	Retrofit of Cosme WTP	Provide shear resisting structural augmentation; replace roof; hurricane shutters. Estimated completion time: more than 12 months. / 2	\$89,500	Currently Unfunded	HMGP and Local
890	Treasure Island	GPS Inventory of Street Signs	Inventory all street and identification signs using GPS technology to facilitate replacement following a storm event. Estimated completion time: more than 12 months./ 4	\$50,000	18 to 24 months/ Currently Unfunded	CDBG; HMGP; HMGP Planning
885	St. Petersburg / Water Resources Dept.	Retrofit of Gulf-to- Bay Pump Station	Provide structural steel strut reinforcing of exterior walls; additional connections of roof planks; hurricane shutters. Estimated completion time: more than 12 months. / 2	\$35,000	Currently Unfunded	EMPATF, HMGP; PDM Program
885	St. Petersburg / Water Resources Dept.	Retrofit of Gulf-to- Bay Pump Station	Provide structural steel strut reinforcing of exterior walls; additional connections of roof planks; hurricane shutters. Estimated completion time: more than 12 months. / 2	\$35,000	Currently Unfunded	EMPATF, HMGP; PDM Program
880	Clearwater / Stormwater	Hercules Industrial Park Water Quality Improvements	1 (Stormwater improvements)	\$1,000,000	Unfunded	SWFWMD Co-operative funding; City of Clearwater Stormwater Utility Fund
880	Oldsmar / Planning and Redevelopment; Communications	Public Education and Information	Provide education and information to property and business owners about storm damage and ways to properly protect structures. Estimated completion time: more than 12 months. / 4	\$25,000	Currently Unfunded	EMPATF; HMGP; PDM Program

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880	Redington Shores / Emergency Management	TV-Media Upgrades	CATV broadcasting equipment emergency replacement for public education & awareness to provide up to date info re:Evacuation & shelters, flood mitigation programs & projects prior to emergencies. Estimated completion time: less than 12 months. / 1	\$35,000	Town Funded	Town annual budget for EM.	
870	Indian Rocks Beach / Public Services	Gulf Blvd Utility Undergrounding	To make aesthetic and safety improvements to Gulf Blvd, including the undergrounding of the Gulf Blvd overhead utilities and to elevate transformers and other equipment above the base flood elevation. Phase 1 of the project, about \$4 million in cost would start att he southern boundary of the City (Whitehurst) and continue north through the Gulf Blvd/Walsingham Rd intersection to at least 6th Ave. project construction dsign is scheduled for 2016, undergrounding construction in 2017 and surface restoration in 2018. /4	\$750,000	12 to 18 months	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; PDM Program; EMPATF	
870		Drainage Pond Compliance Program (1629)	Improve existing ponds for permit compliance. Estimated completion time: more than 12 months. / 1	\$4,421,500	FY2017-FY2025 In Progress	Penny for Pinellas	
870		Bee Branch Drainage Improvements (922333)	Bank stabilization, erosion control,and drainage structure replacement. Estimated completion time: more than 12 months. / 3	\$6,570,900	FY2012 - FY2017 Phase 2 complete, phase1 in progress	Penny for Pinellas; SWFWMD	
870	PC Public Works	Curlew Creek Channel A Improvements (1124)	Channel improvements & retention project (Joint project with City of Dunedin). Estimated completion time: more than 12 months. / 3	\$7,115,800	FY2012 - FY2014 80% completed	Penny for Pinellas; SWFWMD	
870	Redington Shores / Preservation / Parks area	Create a Beach (Erosion) Management plan.	Provide for plans and specifications to expand existing Dune System and Walkover use. Estimated completion time: more than 12 months. / 2	\$150,000	Currently Unfunded	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning	
865	Indian Shores / Town Administrator	Detention Pond	Create a detention pond and storm water drainage system in the community redevelopment area. Estimated completion time: more than 12 months. / 1	\$100,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	

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860	Indian Rocks Beach / Public Services	Road Milling, Resurfacing and curbing	Road deterioration causes safety hazards and negatively impacts the attractiveness of the neighborhood. This project includes continuation of street milling, resurfacing, and curb replacement and includes updating the drainage system in the areas resurfaced. This project also includes concrete curb and gutter replacement and asphalt milling and resurfacing at selected locations in Fiscal Years 2016 and 2018. / 3	\$771,108	Currently Unfunded	Special Revenue Fund – Penny for Pinellas; City of Indian Rocks Beach Capital Improvement Plan; Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants	
860	Lealman SFCD / Emergency Management	Fleet Building Hardening	Harden with rolldown shutters, 2 single doors and 1 window. Estimated completion time: less than 12 months. / 2	\$3,900	Currently unfunded		
860	PC Public Works	Antilles/Oakhurst Drainage Improvements (1820)	Improvements to alleviate street flooding. Estimated completion time: more than 12 months. / 1	\$2,214,900	FY2012 - FY 2016 In Progress (Construction 2016)	Penny for Pinellas	
860	PC Public Works	Pinellas Trail - 54th Ave. Drainage Improvements (1823)	Alleviate flooding on 54th Ave. N, Pinellas Trail, and 97th Way. Estimated completion time: more than 12 months. / 1	\$2,050,000	FY2015 - FY2018 In Progress	Penny for Pinellas	
860	PC Public Works	Traffic Signal Mast Arms	Replacement of strain poles with mast arms at key intersections within unincorporated areas. Estimated completion time: more than 12 months. /2	\$1,300,000	Unfunded	Seeking Pre-Disaster Mitigation Program grant funds	
860	PC Public Works	Drainage Channel Dredging Program (654)	Remove silt and obstructions which impede proper flow of water through drainage channels. Estimated completion time: more than 12 months. / 1	\$350,000	Remove	Penny for Pinellas	
850	Clearwater / Engineering	Install crew and warehouse facility at Public Works	Purchase 3,000 sf recovery crew facility and warehouse. Estimated completion time: more than 12 months. / 4	\$1,000,000	Currently unfunded	EMPATF, HMGP; PDM Program	
850	Clearwater / General Services	Hardened Countryside Recreation Center	Harden windows and doors, increase roof attachments and install emergency generator. Estimated completion time: more than 12 months. / 2	\$300,000	Currently unfunded	EMPATF, HMGP; PDM Program	

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850	Redington Shores / Public Works	Stormwater Management	Rebuild stormwater drainage system in the last three (3) phases. Two phases were completed early 2006. Estimated completion time: more than 12 months. / 1	\$3,100,000	SWFWMD Grant and	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
845	St. Petersburg / Development Svcs	Acquisition of Repetitive Loss Properties	Acquire repetitive loss properties to mitigate real property vulnerabilities. Estimated completion time: more than 12 months. / 1	\$1,000,000		Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
845	St. Petersburg / Development Svcs	Acquisition of Repetitive Loss Properties	Acquire repetitive loss properties to mitigate real property vulnerabilities. Estimated completion time: more than 12 months. / 1	\$1,000,000		Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
840	Lealman SFCD / Emergency Management	Fleet Building Emergency Power	Evaluate and install quick connect and power transfer switch. Estimated completion time: less than 12 months. / 4	\$35,000	-	EMPATF, HMGP; PDM Program
840	North Redington Beach / Public Works	Stormwater Management #1	Install storm water sewer valve to prevent storm water/tidal backup into the streets. Estimated completion time: less than 12 months. / 1	\$25,000	Currently Unfunded	FMAP; HMGP; PDM Program
835	Pinellas Park/ Public Works	78th Ave. and 78th St. Stormwater Improvements	Install a stormwater system to eliminate localized flooding. /1	\$750,000		Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program
830	Indian Rocks Beach / Planning & Zoning Dept.	Beach Management Plan	Write a plan for a dune system, vegetation program, breakwaters, jetties, groins, etc. to prevent erosion. Estimated completion time: less than 12 months. / 3	\$20,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants HMGP Planning;
830	North Redington Beach / Public Works	Stormwater Management #2	Implement retrofit of the remaining 14 storm water valves. Estimated completion time: more than 12 months. / 1	\$210,000		EMPATF, HMGP; PDM Program
830	PC Public Works	Cross Bayou Channel 2 - Rena Dr. (1821)	Improve Cross Bayou Channel 2 from 66th St. to Pinecrest Subdivision. Estimated completion time: more than 12 months. / 1	\$1,250,000	FY2015-FY2017 In Progress	Penny for Pinellas

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830	Redington Shores / Public Works	Flood proofing, Structural Hardening of Town Maintenance Garage (Essential Facility)	Wet Flood Proofing and bracing the Town's existing Maintenance facility located at 155 174th Ave. E. Located in FEMA Zone AE-11. Estimated completion time: more than 12 months. / 1	\$150,000	Currently Unfunded	EMPATF, HMGP; PDM Program		
820	Largo/Envir. Services - Administration	Warehouse	Initiative: Warehouse (Environmental Services / Collections). Description: The WWRF currently has a warehouse with inadequate capacity for the storage of critical backup equipment and spare parts. This project consists of constructing a warehouse with adequate capacity and centralized record keeping and demolishing the existing PSTA building. This will insure that equipment and materials are properly inventoried, managed, and at the ready during a man-made and/or natural disaster. This project is part of the approved CIP. /4	\$3,500,000	FY2016/17	Wastewater (Local)		
820	Redington Shores / Public Works	Underground Utilities	Place underground electrical, telephone and cable utilities to all properties along Gulf Boulevard from 175th Avenue to !83rd Terrace West. Estimated completion time: more than 12 months. / 2	\$7,500,000	Currently Unfunded	CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning		
815	Redington Beach / Public Works	Flood mitigation of town streets and roads	Milling and resurfacing of town (approx. 7 miles) roads and streets. No estimate completion time. / 4	\$2,000,000	Currently unfunded.	Town reserves		
810	North Redington Beach / Public Works	Underground Utilities	Place underground utilities along Gulf Boulevard (NRB). Estimated completion time: more than 12 months. / 2	\$7,000,000	Currently Unfunded	EMPATF; HMGP; PDM Program		
780	Pinellas Park / Public Works	Municipal EOC	Design, engineer, construct and equip an Emergency Operations and Command Center. Estimated completion time: more than 12 months. / 4	\$15,000,000	Currently Unfunded	Funding for the current phase is from local coffers. Funding for implementation could include: Local Funds, SWFWMD Grant, EMPATF, HMGP; PDM Program.		

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780	St. Anthony's Hospital / St. Petersburg	Public Education	Develop a community education program to provide a better interface between the City and its stakeholders. Estimated completion time: less than 12 months. / 4	\$10,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
780	St. Anthony's Hospital / St. Petersburg	ER Retrofit to provide surge capacity for emergencies	Build surge capacity for St. Anthony's Hospital including a new Emergency Dept. Estimated completion time: more than 12 months. / 4	\$2,000,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
780	St. Pete Beach	Response/ Recovery Equipment	Procure vehicle lift, high lift jacks, air compressor and related tools for tire repair. Estimated completion time: more than 12 months. / 4	\$20,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
775	St. Pete Beach	Fire Station Retrofit	Install storm shutters on the fire department building. Estimated completion time: less than 12 months. / 2	\$35,000	Currently Unfunded	Residential Construction Mitigation Program; EMPATF, HMGP; PDM Program
680	PC Parks & Conservation Resources	Restoration (656)	Comprehensive ecosystem restoration project for wetland and upland creation and enhancement and stormwater polishing. /2	\$2,382,100	FY2012 - FY2017	Grant; Local funds; SWFWMD
0	St. Pete Beach	GIS/ Computer Hardware and Software Enhancement	Develop work order system w/GIS enhancements. Estimated completion time: less than 12 months. / 4	\$35,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
0	St. Pete Beach	City EOC Retrofit	Provide shutters for the city EOC. Estimated completion time: less than 12 months. / 2	\$40,000	Currently Unfunded	EMPATF, HMGP; PDM Program
0	St. Pete Beach	SCADA System / Lift Stations	Purchase a SCADA system for 17 wastewater pump/lift stations. Estimated completion time: more than 12 months. / 1	\$90,000	Currently Unfunded	EMPATF, HMGP; PDM Program
0	St. Pete Beach	Generators for Lift Stations	Procure emergency generators and electrical equipment for lift stations #2 and #3. Estimated completion time: less than 12 months. / 1	\$100,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning

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0	St. Pete Beach	Stormwater Management	City-wide drainage repairs and upgrades. Drainage upgrades (pipes, grading inlets and outfalls). Estimated completion time: more than 12 months. / 1	\$125,000	Currently Unfunded	FMAP; HMGP; PDM Program
0	St. Pete Beach	Flood Proof Recreation Bulding	Flood-proof recreation building. Estimated completion time: more than 12 months. / 1	\$350,000	Currently Unfunded	FMAP; HMGP; PDM Program; EMPATF
0	St. Pete Beach	Floodproof and retrofit Police Building/ City EOC	Flood-proof police building designated as the city's emergency operations center. Estimated completion time: more than 12 months. / 1	\$370,000	Currently Unfunded	FMAP; HMGP; PDM Program
0	St. Pete Beach	Flood and Wind Retrofit for Fire Station, Merry Pier and Old City Hall Complex storage tanks	Provide storm protection for fire station, Merry Pier and the Old City Hall complex's underground storage tanks. Estimated completion time: more than 12 months. / 1	\$370,000	Currently Unfunded	FMAP; HMGP; PDM Program; EMPATF
0	St. Pete Beach	Seawall Improvement & stormwater project	Construct seawall improvements in Don CeSar Area. Estimated completion time: more than 12 months. / 3	\$400,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants; HMGP Planning
0	St. Pete Beach	Acquisition of Repetitive Loss Properties	Purchase repetitive loss properties to mitigate losses. Estimated completion time: more than 12 months. / 1	\$1,000,000	Currently Unfunded	EMPATF, HMGP; PDM Program
0	St. Pete Beach	Pump Station Replacement	Replace sanitary sewer force main from pump station #1 to St. Petersburg pipeline. Estimated completion time: more than 12 months. / 1	\$1,400,000	Currently Unfunded	Capitalization Grants for Clean Water State Revolving Funds; CDBG; FMAP; HMGP; Nonpoint Source Implementation Grants
0	St. Pete Beach	Riprap enahncement	Construct riprap enhancements at Blind Pass, Southernmost Jetty in Pass-a-Grille and Pass-a-Grille Channel. Estimated completion time: more than 12 months. / 3	\$2,000,000	Currently Unfunded	HMGP; PDM Program
0	St. Pete Beach	Flood Proof City Hall Complex	Flood proof first floor of existing city hall complex. Estimated completion time: more than 12 months. / 1	\$3,500,000	Currently Unfunded	HMGP and Local funding. FEMA SRL pilot program.

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Total Score	Jurisdiction/ Organization	Project Name	Description/ Natural Hazard Addressed Key: 1=Flooding; 2=Storm Wind; 3=Erosion; 4=All Hazard	Est. Cost	Timeframe / Status	Possible Funding Sources see App 11 for key to acronyms.		
0	St. Pete Beach	Underground Utilities	Bury Vina Del Mar utilities underground. Estimated completion time: more than 12 months. / 2	\$4,200,000	Currently Unfunded	FMAP; HMGP; PDM Program		
	Largo/Envir. Services	Biosolids Building - Hurricane Hardening	The Biosolids building is a large industrial, pre-engineered metal building. It houses most of the operating components used to convert wastewater solid into a Class AA Biosolid product, used for fertilization. Due to the essential nature of the facility, and the potential for the facility to sustain significant damage during a hurricane, a study was conducted to evaluate the structural performance of the building, under the effects of a Category 3 hurricane and to provide recommendations for either strengthening the existing structure (\$1.4 million), or total replacement of the building (\$1.8 million). Repair work would include roofing, wall work, structural bracing and stiffening, replacement of doors, windows and fans; and painting of structural steel. This project is not part of the approved CIP. /4	\$1,800,000	<fy17 (unfunded)<="" td=""><td></td></fy17>			
	Largo/Info. Technology	Computer Server Room Business Continuity	In FY 2010, it was determined that the weight and size of the existing server room was inadequate. The weight is more than the existing City Hall building can bear (computer room on second floor), the size and HVAC requirements are inadequate, and the survivability of the wind rating of the City Hall building is not high enough to protect the City's main (computer) infrastructure - the servers and main telephone switch. A new stand-alone Server and Telephone building (Data Center), survivable up to category 5 hurricane winds, off-site from City Hall is needed. The existing and proposed Data Center supports operational and communications for all City Departments including Public Safety, Environment Services, Public Works and Emergency Management. This project is part of the approved CIP. /4	\$2,000,000	FY12	LOST		

## Pinellas County Local Mitigation Strategy

**Table 10-1: Mitigation Accomplishments** 

Project	Cost	Status	Funding
Belleair Beach			
Master Stormwater Plan for city-wide stormwater improvements and flood prevention	\$55,000	For Fiscal Year 2014-2015	Currently Budgeted Local
Clearwater			
Purchase Friendly Village of Kapok Mobile Home Park to eliminate repetitive flood losses. A nature park was created on the site along with storm water improvements for the area to prevent flooding.	\$17,000,000	Complete	Local and State
Replace seawalls throughout Clearwater Beach. Estimated completion time: more than 12 months.	\$5,000,000	Funded and Underway	EMPATF, HMGP; PDM Program
Develop a CERT that is trained on How to Educate Homeowners on Mitigation Techniques.	\$37,000	Complete	Local and State
Purchase 2000Kw mobile generator	\$375,000	Currently being bid.	Local and State
Jeffords Street Outfall	\$1,000,000	Currently in Design.	Local and State
Magnolia Street Outfall	\$4,000,000	Currently in Design.	Local and State
Woodlawn Terace Floodplain Storage	\$1,000,000	Currently under Construction	Local and State
Smallwood Circle Drainage Improvements	\$1,500,000	Currently under Construction	Local and State
Dunedin			
Lake Earl to Skyeloch Piping.	\$35,000	Complete	State
Lake Sperry pipe lining.	\$150,000	Complete	State
Elevated five (5) repetitive loss structures	\$307,268	Complete	State

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## Pinellas County Local Mitigation Strategy

Project	Cost	Status	Funding
Retrofit 2 structures to reduce flood damage potential	\$174,872	Underway	State
Rebuild 1 Structure	\$119,746	Complete	State
Storm Shutters for Municipal Services Building, 750 Milwaukee Ave.; City Hall, 542 Main St., and the Sheriff's North County Sub-station, 737 Louden Ave.	\$25,000	Municipal Services Building and Sheriff's North County Sub-statioin Projects completed with HMGP funds in 2007. City Hall Project found to be infeasible and was deleted.	HMGP and Local
Eckerd College			
Project: Construction of a new Center for Molecular and Life Sciences	\$25,000,000	Completed 2013	Local
Project: Hardening envelope (roof, windows) Sheen Science Center (3 buildings)	\$7,500,000	2013/14	Local
East Lake Fire District			
Gulfport			
Retrofit City Hall: Harden skylights in City Hall to withstand hurricane force winds; and install window protection devices (shutters) at City Hall and Fire Station (2401 - 53rd Street South and 5314 - 23re Avenue South)	\$25,000	Complete	HMGP and Local
Fire Station Wind Retrofit: Harden Fire Station 17 overhead apparatus bay doors, and exterior doors of Fire Administration Building to withstand 125 mph + winds.	\$100,000	Complete	Local
Indian Rocks Beach			
Demolished ten (10) pre-FIRM non-conforming structures and replaced them with conforming structures	\$2,432,000	Complete	Private

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Project	Cost	Status	Funding
27th Ave. and 1st St. drainage project to mitigate local flooding and provide treatment of local storm water runnoff.	\$260,000	Complete	Local and State
Design 11th Ave. through 13th Ave. drainage project to mitigate local flooding.	\$290,000	Complete	Local
Reclamation of 1.2 acres of wetlands to act as a flood buffer.	\$100,000	Complete	Local
<u>Dune Walkovers</u>	\$114,00	<u>Complete</u>	<u>Local</u>
Small Basin Reconstruction	\$375,000	Complete	Local
Stormwater Reconstruction	\$160,000	Complete	Local
Indian Shores			
Storm water management in redevelopment area to control and mitigate flooding. FY97/98	\$60,000	Complete	Local and State
FMAP elevation of existing repetitive loss struture. FY97/98	\$22,500	Complete	Private and State
FMAP acquisition and demolition of repetitive loss structure. FY97/98	\$26,797	Complete	Local and State
Installed new seawall to mitigate flooding. FY97/98	\$16,770	Complete	Local and State
Installed new seawall and replaced seawall cap. FY97/98	\$5,080	Complete	Local
Storm water management at 19305 Gulf Blvd. (Town Hall complex) FY97/98	\$80,000	Complete	Local and State
FMAP elevation of repetitive loss existing structure. FY00/01	\$41,683	Complete	Local and State
Development of Town master drainage plan. FY01/02	\$80,000	Complete	Local and State
Purchase property in redevelopment area for potential site of future retention pond. FY01/02	\$40,000	Complete	Local

Project	Cost	Status	Funding
Implement Town-wide storm water master plan. FY02/03	\$300,000	Underway	Local and State
Purchase and installation of an auxiliary generator for the Critical Facility, Town Hall, 19305 Gulf Blvd.	\$33,455	Complete	HMGP and Local
Juvenile Welfare Board			
Kenneth City			
In 2015, the Town completed a \$1.2M repair to a tributary of Joe's Creek, whereby a semi-collapsed open ditch was replaced with an underground culvert/CMU box culvert system.	<u>\$600,000</u>	Completed	(\$600K secured through SWFWMD cooperative funding)
Necessary repairs were completed to the Town's underground fuel storage tank, along with the acquisition of an emergency generator to supply back-up power in the event of an emergency in 2015	<u>\$10,000</u>	<u>Completed</u>	
Retrofit of Critical Facility/Stormshutters on PD and City Hall	<u>\$46,000</u>	Completed	EMPATF;HMGP; PDM Program
Repairs to existing stormwater lines damaged by July Rain event		<u>Underway</u>	<u>Local</u>
Re-sheathing of Public Works Building with wind-loaded exterior	<u>\$400,000</u>	<u>Underway</u>	Local
Largo			
Initiative: Hardening the new Public Works administration building by adding storm shutters and installing emergency generators. This facility contains the Public Works Emergency Operations Center. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services. The Public Works administration structure is valued at \$1.1 million.	\$89,151	Completed	

Project	Cost	Status	Funding
Initiative: Hardening the new Environmental Services (sewer) administration building by adding storm shutters and installing emergency generators. This facility contains the Environmental Services Emergency Operations Center. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services. The Environmental Services administration structure is valued at \$1.8 million.	\$89,151	Completed	
Initiative: Installing an emergency generator at the new administration building for the Wastewater Treatment Plant. The generator will insure the Plant's ability to provide continuous service during power failures. Benefit: Keeping the WWTP fully operational would help avoid sanitary sewer conveyance system backup that could cause significant damage to private properties in the event of a power failure caused by a natural or man-made disaster event.	\$859,072	Completed	Local
Initiative: Hardening the Largo City Hall, Police, and Emergency Operations Center buildings by adding storm shutters, removing abandoned air conditioning equipment from the roof, and installing emergency generators. In addition to housing the administrations of more than half of the City's departments, this facility contains the City's centralized telephone, computer, and broadcasting systems. Benefit: Averting wind damage would minimize or eliminate post-disaster disruption of municipal services, including the EOC, police, fire, permitting, and planning operations. The Largo Municipal Complex structures are valued at \$10.9 million.	\$321,285	Completed	
Hardening the new Environmental services (sewer) administration building by adding storm shutters and installing emergency generators. This facility contains the Environmental Services EOC	\$89,151	Project Completed.	HMGP/Local
Channel 1 Drainage/Infrastructure Plan	\$1,919,213	Completed 2007	Local

Project	Cost	Status	Funding
Suncoast Manor Drainage//Old Valencia Blvd. Plan	\$274,132	Completed 2007	Local
McKay Creek Drainage Improvement Plan	\$1,549,460	Completed 2006	Local
Purchasing and Demolition of Repetitive Loss Properties (4)			
132 Gatewood Drive	\$149,000	Completed 2003	Local
198 Gatewood Drive	\$190,000	Completed 2003	Local
71 East Overbrook Drive	\$177,000	Completed 2005	Local
2463 19th Place SW	\$127,500	Completed 2005	Local
Rain Gauge Monitoring System Base Unit (32 units at \$1800 per unit)	\$57,600	Completed 1995-2007 (more added as budget permits)	Local
Base Level Monitoring System for Rain Gauge System, 24 hours a day service (2 units), \$6,000 per unit	\$12,000	Completed 1995-2007 (more added as budget permits)	Local
SCADA System for remote monitoring	\$1,350,000	Competed 2004	Local
Lealman Fire District  Madeira Beach			
Stormwater Master Plan Improvements	\$218,429	Underway	Local
Beach Groin Rehabilitation Project – Repair and maintain the City's existing beach groin system. (This system was installed in the 1950's. Because of the effectiveness of this system, Madeira Beach has not required other beach renourishment efforts.)	\$275,000		Local
Municipal Seawall Replacement	\$204,693	Complete	

Project	Cost	Status	Funding
Storm Drainage and Roadway Improvements Relating to Drainage – Normandy Road	\$1,180,000	Underway	Local /Applied for Matching SWFWMD Cooperative Funding
Storm Drainage and Roadway Improvements Relating to Drainage – Engineering Study – Boca Ciega Drive	\$80,000	Study underway	Local (including a portion by Local Option Sales Tax)
Municipal Complex Reconstruction (City Hall, Fire Station, Recreation Center and related outside activity areas)	\$8,630,000	This project has been approved and funded through municipal funding and bond issue. Project currently in permitting process. Construction to begin early 2014.	Local
Stormwater Outfall Cleaning	\$180,000	On-going	Local
North Redington Beach			
SEWER - North Redington Beach provides sewer service for Redington Shores and NRB. Raise main lift station electrical and controls above flood plain (\$75,000). Raise emergency generator and fuel tank above flood plain (\$50,000).	Unknown	Completed, November 2008	Local/County
Underground utilities throughout the side streets of NRB. This includes all streets except Gulf Boulevard.	\$2,000,000	Completed	Local
Oldsmar			
Hurricane Wind Hardening Retrofit of Municipal Services Facility.	\$103,723	Complete	HMGP/Local
Pinellas County  Sediment/erosion control, sediment removal, and/or stream bank/			
channel stabilization for flood control purposes		Ongoing and completed	State and Local

Project	Cost	Status	Funding
1) Bee Branch	\$6,570,900	Phase 2 complete, phase 1 in progress	Penny for Pinellas; SWFWMD; Grant
2) Curlew Creek	\$7,115,800	80% completeComplete	Penny for Pinellas; SWFWMD
3) Bear Creek Channel Improvements	\$2,908,900	FY2014 Complete	Penny for Pinellas; SWFWMD
4) Curlew Creek Channel A Improvements	\$7,115,800	FY2012-FY2014 80% complete	Penny for Pinellas; SWFWMD
Animal Services Building Storm Hardening	\$256,670	Completed	HM Allocation/Local
Belleair Elementary School Storm Retrofit; new classroom will gain 783 shelter spaces	\$44,100	Completed	Local
Emergency Communications upgrade of radio system to SmartZone technology.	\$17,500,000	Complete	<u>CIP/grants</u>
EMS hardening of Sunstar Communications Center north wall and south alleyway enclosed.	<u>\$310,000</u>	Complete	<u>General Fund</u>
EMS A/C replacement for the radio and server room.	\$300,000	Complete	General Fund
EMS Sunstar Communications Center and radio room roof replacement.	<u>\$150,000</u>	Complete	General Fund
EMS Building Storm Hardening	\$272,294	Completed	HM Allocation/Local
High Point Elementary School Retrofit	\$6,002	Project Completed	Local

Project	Cost	Status	Funding
Medical Examiner/Forensics Building Storm Hardening	\$347,607	Completed	HM Allocation/Local
New Heights Elementary School Door Replacements in Building 2	\$33,927	Project Completed	Local
Public Works Storm Hardening - Generator Bldg., Traffic Bldg, Survey Bldg.	\$49,422	Completed	HM Allocation/Local
Ross Norton Community Center - Generator	\$70,322	Project Completed	Local
Skycrest Elementary School Storm Retrofit; new classroom will gain 783 shelter spaces	\$44,100	Completed	Local
Supervisor of Elections Building Storm Hardening (Starkey Rd)	\$98,271	Completed	HM Allocation/Local
Post-Disaster Redevelopment Plan, including Health/Human Services Component	\$120,000	Project completed; to be reviewed by BCC	CPI/Local
Post-Disaster Redevelopment Plan - Health/Human Services Component	\$40,000	Project completed; to be reviewed by BCC	HMGP/Local
Comprehensive Land Development Regulations Update - includes updating floodplain management regulations		Project in progress	
Homeless Emergency Project was awarded for 4 single-family home roof replacements	\$38,000.00	Roof replaced with current building code standards.	CDBG
Religious Community Services, Inc. (RCS) was awarded for roof replacement at the Food Bank.	\$40,000.00	Roof replaced with current building code standards.	CDBG
Pinellas County Community Development Low Interest Loan	\$1.4M	81 Single family homes received a Low Interest Loan	CDBG; State Housing Initiatives Partners

Project	Cost	Status	Funding
		from Pinellas County for hurricane mitigation.	(SHIP); Housing Trust Fund (HFT)
Neighborhood Stabilization Program NSP	\$20,400 (est.)	10 homes remodeled, 2 with impact windows, 4 with metal storm panels	NSP 1
Neighborhood Stabilization Program NSP2	\$43,300 (est.)	13 homes remodeled, 4 with impact windows, 9 with metal storm panels	NSP2
Neighborhood-based education and outreach on County issues of concern (i.e. hurricane preparedness, mosquito prevention, surface water quality, etc.).		Ongoing project in progress	CDBG
The Glades Drainage Assessment	\$1,089,200	Completed	Penny for Pinellas/ Local
Cross Bayou Watershed Plan (132A)	\$514,600	Completed FY2013	Penny for Pinellas
Keystone Road Reconstruction	\$16,805,900	Completed FY2013	Penny for Pinellas
Bryan Dairy Road - Starkey to 72nd St.	\$9,275,400	Completed FY2013	Penny for Pinellas; Grants
Cross Bayou Watershed Plan	\$252,310	Completed FY2013	Penny for Pinellas; SWFWMD; Grant
Starkey Basin Watershed Mgt. Plan	\$607,200	Completed FY2013	Penny for Pinellas; SWFMD; Gov't Reimbursement
Public Safety Facilities & Centralized Communications Center	\$72,981,800	Completed	Penny for Pinellas

Project	Cost	Status	Funding
Sea Level Rise: Implemented mulit-departmental County Climate Team; joined efforts with TBRPC; contracted with UF/Sea Grant Program to initiate sea level rise conversations with municipalities	\$15,000	Ongoing	General Fund
Lealman Area Drainage Improvements (1628)	\$881,930	FY2012 to FY2014 Completed	Penny for Pinellas
Lealman Central Area Drainage Improvements (2027) Preliminary engineering for master drainage plan.	\$150,000	Completed	CDBG
Government Facilities Remodel & Renovation (1633)	12,275,500	Completed	Penny for Pinellas
Community Buildings Emergency Shelter Project (1843)	6,950,000	Completed	Penny for Pinellas
Pinellas Park			
Basin 4A Drainage Improvement - Culvert replacements and ditch regrading within the Channel 4A area from 58th Street to a point upstream of the 53rd Street Culvert. This would be done after the Pinellas Poark Water Management District upgrades Channel 41 from 58th Street to a proposed pond south of 62nd Avenue.	\$487,250	Completed in 2004	Local
Park Blvd Drainage Improvement Phase I, Basin B - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin B is located between the CSX Railroad line and 49th Street.	\$5,364,000	Completed in 2006	Local, State, and Federal
Park Blvd Drainage Improvement Phase II, Basin A - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin A is located between 65th Way to the CSX Railroad line.	\$10,000,000	Completed in 2008	Local, State, and Federal

Project	Cost	Status	Funding
Park Blvd Drainage Improvement Phase III, Basin C - Improve drainage along Park Boulevard corridor between US 19 and 66th Street. Improve each drainage network in the area as recommended by the 1998 Park Boulevard Master Drainage Plan. Basin C is located between US 19 and east of 49th Street.	\$14,530,000	The drainage project was completed in FY10/11	Local, County, State, and Federal
Helen Howarth Park Drainage Basin Evaluation - Provide survey, conceptual-level modeling, data collection, and preparation of report to recommend possible improvements in drainage basin.	\$32,500	Study completed in 2005	Local
Homeland Drainage Improvement District Drainage Study - Determine improvement area through completion of a drainage study, including surveying, modeling and laternative evaluation.	\$55,000	Study completed in 2005	Local
Stormwater Rehabilitation Program - Install and line galvanized culvert pipe through the City.	\$500,000	This is an annual ongoing project.	Local
NFIP Map Update - This project involved an outreach to preoperty property owners of potential changes and included use of websites, a TV show, public service announcements through the Government Affairs Department, and displays at the Library, City Hall, and at Park Station. The NFIP anticipates the maps becoming effective in September 2009.		Completed. The maps became effective August 18, 2009.	Local
Mobile Hazard Mitigation House - This project adapted a mobile home to illustrate means to better protect homes and MH's from various natural hazards as well as fire. The unit is also equipped to make multimedia presentations and be used to demonstrate home escape measures. FY 00/01	\$31,747	Completed	State

Project	Cost	Status	Funding
Home Disaster Mitigation Handbook - This document is currently being produced. It is an easy to read and understand booklet that explains the basic means to protect homes and can help homeowner's mitigate from those storms events common to central Florida. This document will be produced in a CD-ROM format for other communities to replicate.	\$50,000	Completed	State
Purchase of Land for Drainage Retention. The City has entered into a contract to purchase property near Park Blvd and 40th St. N. The property will be used for storm water retention at Park Blvd and 43rd St. N.	\$796,000	Completed	Local
94th Avenue N. widening: This is a roadway project with a drainage component. A collector road is to be widened to a two lane divided facility between 58th St. N. and 49th St. N. It has been designed to address local drainage issues and those of the surrounding neighborhoods. Completion is anticipated in FY 03/04.	\$2,200,000	Completed	Local
60th St. N. ditch mitigation project is to install a major box culvert system along 60th St. N. between 70th Avenue N. and the Pinellas Park Water Management District Channel 4. This project will promote a greater flow of storm water from the secondary drainage system into the primary drainage facility and reduce localized street and structure flooding and eliminate a dangerous open ditch situation that currently exists.	\$1,067,000	Completed	Local
Park Blvd/66th St. N. intersection improvement. Florida Department of Transportation has recently completed this project which included a drainage component to address flooding up to a 25 year storm event.	\$1,600,000	Completed	State and Federal

Project	Cost	Status	Funding
Homeland Drainage Improvement District Drainage Study - Determine improvement area through completion of a drainage study, including surveying, modeling and alternative evaluation.	\$3,750,000	Completed 2012	Local
Annual Sanitary Sewer Rehabilitiation & Relining - This program is an ongoing program that reduces the seepage of sewerage into the soils and water table as well as prohibit the infiltration of stormwater into the lines. This latter activity reduces the likilyhood of line surcharge, line failure, and capacity at the treatment plant.	\$550,000 annually	Annual Project Ongoing	Local
Longhill Drive Drainage Improvements - Project included the culverting of 1,200 LF of open ditch to eliminate erosion and discharge into yards and structures. Project decreased flooding but also included water quality imiprovements prior to discharge into Cross Bayou Canal.	\$1,176,680	Completed FY13-14	Local and SWFWMD Grant
Emergency Generator Installation LS 27 to maintain service	\$70,000	Completed FY13-14	Local
Emergency Generator Installation LS1 to maintain service	\$115,000	Completed FY13-14	Local
Redington Beach  Improvement of storm drainage to have the remainder of the Town's storm sewer system upgraded and add on to serve growth in the community.	\$5,000,000	Completed 2009	SWFWMD/Local
Flood mitigation of town streets and roads, milling & resurfacing	\$2,000,000	Completed in 2012	<u>Local</u>
Repair intracoastal causeway seawalls	<u>\$175,000</u>	Underway	Local
Redington Shores			

Project	Cost	Status	Funding
Elevated Town Hall / EOC Building .Constructed on fill to elevation 12.0 NGVD. Zone AE.	\$600,000	Complete 2001	Local
Storm water retrofit project for areas east of Gulf Blvd. Water quality improvement by filtering street rainfall run-off.	\$3,100,000	Complete 2010	Local and State
TV / Media Upgrades :CATV broadcasting equipment emergency replacement for public education & awareness to provide up to date info re:Evacuation & shelters, flood mitigation programs & projects prior to emergencies.	\$35,000	Complete 2013	Local
Kayak Ramp: ShorelineProtection to provide erosion control of park open shore due to 4 foot change in grade within 30 feet of top of bank ACOE and FDEP approved 5 foot wide concrete ramp and planting of Red Mangroves in unstabilized areas.	\$8,500	Complete 2013	Local
T.S. Debby: Emergency response to Town Infrastructure due to wind, erosion, and flooding Re; Debris Removal, Sewer, Street, Parks and Roof Repairs.	\$12,625	Complete 2013	Local and State
Safety Harbor			
Public Works dewatering pump replacement	<u>\$18,000</u>	<u>Complete</u>	<u>Local</u>
Harden Safety Harbor EOC – Impact resistant windows and doors.	<u>\$15,000</u>	<u>Complete</u>	Federal, State, Local
Harden Fire Station #52 – Impact resistant windows, doors, garage doors.	\$110,000	Complete	Federal, State, Local
Harden Fire Station #53 and upgrade EOC	\$250,000	Complete	Local
East Gate Drainage Improvements	\$1,442,811	Complete	Local and State
South Green Springs - Improvements to minimize street flooding.	\$1,500,000	Complete	Local
11th Ave. S. Brick Street & Drainage Improvements	\$701,339	Complete	Local and State

Project	Cost	Status	Funding
Street and Yard Flooding - 2nd Ave. N.	\$1,300,000	Complete	Local
Rigsby Center/Hurricane Shutters Installed	\$1,438	Complete	Local
Parks & Bldg. Maintenance/Hurricane Shuitters and Wind rated Bay/Garage doors installed.	\$4,021	Complete	Local
Street Flooding Improvements - Bailey Street	\$430,000	Complete	Local
Bishop Creek Erosion and Storm Water Control, Harbor Woods	\$906,857	Complete	Local and State
Fire Station #53, Replace Ladder Truck and special Equipment	\$510,000	Complete	Local
Bishop Creek Erosion and Storm Water Control, Rainbow Farms Ph 1.	\$1,300,000	Complete	Local and State
Library/Hurricane Shutters for existing building	\$7,058	Complete	Local
Daisy Douglas Park/Wind rated garage doors installed.	\$1,464	Complete	Local
Fire Station #53/hurricane shutters installed	\$1,398	Complete	Local
Public Works Office Facility/Hurricane shutters installed	\$1,538	Complete	Local
North City Park/Wind rated garage doors installed	\$1,392	Complete	Local
Master Lift Station: new generator and pumps	\$70,000	Complete	Local
Fire Station #52: New generator	\$75,000	Complete	Local
Fire Station #53: New generator	\$60,000	Complete	Local
Fire Station #53: Building to house new generator	\$50,000	Complete	Local
Public Works replacement of a generator	\$40,000	Complete	Local
South Bayshore Drainage/Water Quality Improvements	\$2,289,313	Completed	Federal, State, Local

Project	Cost	Status	Funding
Cypress Trace Lift Station	\$60,000	Completed	Local
Briar Creek Lift Station	\$70,000	Completed	Local
Seminole			
Construct emergency operations center and public works garage. Estimated completion time: more than 12 months.	\$6,500,000	Complete 2013	Local
South Pasadena			
Storm shutters on public works building	\$16,500	Complete	HMGP
Generator switch at joint EOC	\$15,000	Complete	Local
Hardened fire station and construct addition	\$43,000	Complete	HMGP \$5,000/ Local \$38,000
Purchased 80KW generator for public works building	\$39,000	Complete	Local
City Hall Window Protection	\$50,000	Complete	Local
St. Petersburg			
Mitigated 3 waterfront properties on Bayou Grande Blvd. NE to prevent damage from flooding.	\$289,237	Complete	Federal and Local
1st St. N. storm water project	\$5,788,000	Complete	Local
Highland St. storm water project.	\$844,000	Complete	Local
Nebraska Ave. NE storm water project.	\$200,000	Complete	Local
3rd St. Bayboro storm water project.	\$3,668,000	Complete	Local
4th St. S. Bayboro storm water project.	\$2,369,000	Complete	Local
Floral Lake storm water project	\$308,000	Complete	Local

Project	Cost	Status	Funding
Mirror Lake alum injection system.	\$553,000	Complete	Local
Booker Creek Maintenance at Tropicana Dome.	\$203,000	Complete	Local
8th St. drain storm water project.	\$2,558,000	Complete	Local
67th St. drain storm water project.	\$681,000	Complete	Local
Lake Winston storm water project.	\$2,261,000	Complete	Local
31st St. S storm water project.	\$576,000	Complete	Local
Tinney Creek rehab. project.	\$194,000	Complete	Local
Ponds Ditch rehab. project.	\$30,000	Complete	Local
Clam Bayou retrofit project	\$286,000	Complete	Local
Ditch piping project - 4 locations throughout the city.	\$3,578,000	Complete	Local
Bayou Grande Blvd. NE project.	\$398,000	Complete	Local
Roser Park Creek project.	\$1,000,000	Complete	Local
King St. N. drainage improvements	\$2,966,000	Complete	Local
Oak St. NE drainage improvements	\$344,000	Complete	Local
Riviera Bay & Snell Isle Stormwater Vaults	\$1,400,000	Complete	Penney for Pinellas/Local
MLK Street N. Part 2 Storm Drainage Improvements	\$5,958,000	<u>Complete</u>	SWFWMD/Local
Golf Creek, 13th A/N & Vicinity Stormwater Improvements	\$1,600,000	Complete	SWFWMD/Local
Jungle Lake Outfall Storm Drainage Improvements	\$2,980,000	Complete	SWFWMD/Local

Project	Cost	Status	Funding
Jungle Lake Northeast Basin Storm drainage Improvements	\$3,557,000	Complete	SWFWMD/Local
Fire Station Window and Door Storm Protection. This project will retrofit nine fire stations to protect against storm impacts by providing window protection and replacing vulnerable overhead doors. Downtown Master Fire Station, 455 8th St. S.; Palmetto Park Station #3, 3101 5th Ave. S.; North Shore Station #4, 2501 4th St. N.; Fossil Park Station #7, 975 9th St. N.; Lake Maggiore Station #8, 4701 Martin Luther King St. S.; Lake Pasadena Station #9, 475 66th St. N.; Ponce de Leon Station #10, 2800 30th Ave. N.; Lakewood Station #11, 5050 31st St. S.; Gateway Station #13, 11600 Roosevelt Blvd.	\$250,000	All projects completed using local funds except for Ponce de Leon Station #10. the work on that station is currently underway and is being funded by HMGP and a local share match.	HMGP/Local
Flood and Wind Retrofit of Municipal Buildings	\$310,000	Complete	Federal and Local
Tarpon Springs			
Riverside and Hillside Drive Stormwater Improvements	\$67,000	Conceptual Design	SW Utility
Walton Avenue Evacuation Route SW Improvements	\$224,000	Under Construction	SW Utility
Pent Street Flooding/Drainage Improvements	\$1,122,000	Conceptual Design	SW Utility
Disston and Tarpon Ave Evac Route SW Improvements	\$428,000	Design Complete	SW Utility
Kenneth Way Flooding/Drainage Improvements	\$91,000	Conceptual Design	SW Utility
Center Street at Disston Ave Flooding/Drainage Improvements	\$573,000	Alternatives Analysis Underway	SW Utility
Athens St. and Dodecenase Sponge Docks Flooding/Drainage Imp.	\$27,000	Conceptual Design	SW Utility
Palm Avenue Flooding/Drainage Improvements	\$728,000	Conceptual Design	SW Utility
Chesapeak Drive Flooding/Drainage Improvements	\$185,000	Under Construction	SW Utility

Project	Cost	Status	Funding
Hibiscus Street Flooding/Drainage Improvements	\$90,100	Under Construction	SW Utility
Highland Avenue at Vista Place Flooding/Drainage Improvements	\$161,500	Conceptual Design	SW Utility
Disston Ave between Spruce and Live Oak Flooding/Drainage Imp	\$581,000	Conceptual Design	SW Utility
S&R Boat	\$15,000	Purchased 2014	Penny and City
Tarpon Springs Shoreline Stabilization (1069)	\$503,700	Completed 2014	Penny for Pinellas
Treasure Island			
Elevated three structures above the base floor elevation	\$100,000	Complete	Private
Demolished three structures and replaced with conforming structures.	\$1,500,000	Complete	Private
Demolished one structure in flood area.	\$800,000	Complete	Local and State
Applications pending to elevate two structures above the base floor elevation	\$210,000	Underway	Private and State
Drainage improvements in the Sunset Beach neighborhood to reduce flooding.	\$300,000	Complete	Local and State
Hardening of critical facilities - City Hall and Public works complex.	\$150,000	Received HMGP grant for this project in the amount of \$71,487.	HMGP/Local
Reconstruction of Treasure Island Causeway bascule bridges to replace bridges built in 1939. Causeway is designated evacuation route for 7,560 permanent and 8,000 seasonal residents with the original bridges and equipment subject to storm tide flooding due to low elevation.	\$50,000,000	Received federal grant for this project in the amount of \$50,000,000. Completed in 2007.	Federal

Project	Cost	Status	Funding
Enhancement of beach area to reduce storm losses. Quarterly planting of sea oats by community volunteers to enhance dune system for a number of years. County provides sea oats free of charge. Nominal cost to City. Also, sand sharing program set up so that in the event of a storm, the City can relocate accreted sand to storm damaged areas of Treasure Island's beach (\$500,000 reserve fund set aside by City Commission for emergency beach repairs.)	Nominal to date. Resrve of \$500,000 established.	Complet and on-going	Local and County (sea oats donation)
2013 Elevated 2 structures above BFE	\$459,000	Complete	Private
2013 Demolished one structure in flood area (no replacement)	\$10,000	Complete	Private
Permits issues to elevate one structure above the base floor elevation (to be completed in 2014)	\$1,430,000	Underway	Private
Demolition of 7 non-FEMA compliant structures (2015)	<u>\$64,700</u>	<u>Complete</u>	<u>Private</u>
Drainage improvements in the Sunset Beach neighborhood to reduce flooding. (One phase)	\$914,000	One Phase Complete	Local and State
Treasure Island / Public Works  Palms Bridge replacement	\$1,657,638	Complete	Local
Treasure Island / Public Works	\$2,244,517	Complete	Local
Capri Bridge replacement			
Main Lift Station Refurbishment	\$429,176	Complete	Local
Lift Station #3 Refurbishment	\$244,339	Complete	Local
Harden the PARC Center Apartments (Intermediate Care Facility).	\$1,000,000	Complete	