

July 21, 2020

Commissioners Court Administration Building Houston, Texas 77002

Reference: Transmittal of a status report documenting Harris County Flood

Control District projects that reduce flood risks in socially vulnerable

neighborhoods.

Dear Court Members:

During the Commissioners Court meeting on June 30, 2020, the Harris County Flood Control District (District) was asked to prepare a report to document the status of flood risk reduction projects in socially vulnerable neighborhoods. The attached exhibits and tables illustrate our current, active projects across all of our watersheds with respect to the Centers for Disease Control and Prevention (CDC) Social Vulnerable Index (SVI) ratings. It is important to note as part of this transmittal:

- Out of the 145 active bond projects, 57 percent are located in high SVI areas (scores between 0.75 and 1) and 79 percent are located in high or moderately high SVI areas (scores between 0.5 and 1).
- The District is, and has been, executing our projects in compliance with the Prioritization Framework that was adopted by Commissioners Court on August 27, 2019. This framework prioritized the initiation of our projects based on several factors, including SVI.
- Prior to the prioritization framework being adopted and only 1 month after the 2018 Bond Election passed, the District executed an initial contract in the amount of \$712,260 with a consultant to help us accelerate projects within the Halls Bayou watershed. This contract has since been amended to approximately \$47 million, the largest consultant contract in the District's history with a sole purpose to properly plan, accelerate, and execute flood risk reduction projects in the Halls Bayou watershed over the next 7 years.
- A similar approach has been developed and funded in the Cedar Bayou watershed, which also serves areas with high SVI ratings.
- All District bond projects in the Greens and Halls Bayou watersheds have started, with 7 currently in construction at a total value of over \$100 million.

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• The District has expended approximately \$40 million in local dollars towards building the Hunting Bayou Federal Flood Risk Reduction Project since we began construction in 2008, despite not receiving any reimbursements from the US Army Corps of Engineers due in large part to a low Benefit-to-Cost Ratio (BCR). This project will positively benefit over 4,400 residential structures primarily in the Kashmere Gardens subdivision. It took funding provided via the Bipartisan Budget Act of 2018 for the District to secure the necessary funding, at full federal expense, to complete this critical project which is also located in a high SVI area and provides drainage to the Lyndon B. Johnson County Hospital, the state's busiest Level III trauma center.

Some challenges remain as we continue to execute and accelerate flood risk reduction projects across the county, which include:

- Local drainage must be addressed to increase resiliency in many older, higher SVI neighborhoods, which makes partnership projects with the jurisdictions that have authority over local drainage a key component and these have been slow to materialize. Without good local drainage, neighborhoods will still flood after the District increases our channel capacities if the water cannot get to the channels. We are learning that several of the local jurisdictions are reporting funding problems, which may require creative funding solutions for them to participate in these joint projects.
- More rights-of-way are needed along many of our channels and tributaries to create capacity and storage, which in many cases requires the purchase and relocation of homes and businesses. A robust relocation program, including replacement affordable housing, is key to minimizing disruption to affected property owners and impacts how quickly we can implement projects.
- We continue to engage the community to solicit input on projects, and while the COVID pandemic has required us to go virtual on our meetings, we still have better attendance in certain watersheds as compared to watersheds that are in a higher SVI area.
- The District is pursuing multiple grants to help fund projects in high SVI areas, the primary of these is the Community Development Block Grant Mitigation (CDBG-MIT) funding made available from the US Department of Housing and Urban Development and administered by the Texas General Land Office (GLO). There is approximately \$4.2 billion in CDBG-MIT funds at the GLO, and in order to maximize the amount of grant funding the District could be awarded from these funds, a lengthy application and approval process is required, which will affect how quickly we can construct projects in high SVI areas.

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- As we implement these flood risk reduction projects in high SVI neighborhoods, there is a concern that gentrification will be accelerated, driving up costs of living and making it more expensive, if not cost prohibitive, for low income residents to remain in their neighborhoods. A collaborative approach needs to be developed to address this concern as part of our comprehensive project approach.
- To date, we have secured approximately \$680 million in partnership funds to support the bond program out of an anticipated amount of \$2.4 billion. We have identified additional sources that have the potential to make available several hundred million more, but there is no guarantee on these funds which means additional funding will likely be needed to help us build all we had originally intended and presented in the 2018 Bond Program.

The challenges listed above will require the support and resources from multiple County departments as well as assistance from community based groups to ensure we have community engagement in these budget and policy related discussions. The right blend of community input to help guide the various County departments involved will help increase the successful implementation of our Bond Program and companion County projects as we espouse a holistic, inclusive, efficient, and equitable approach to achieving resiliency.

Sincerely,

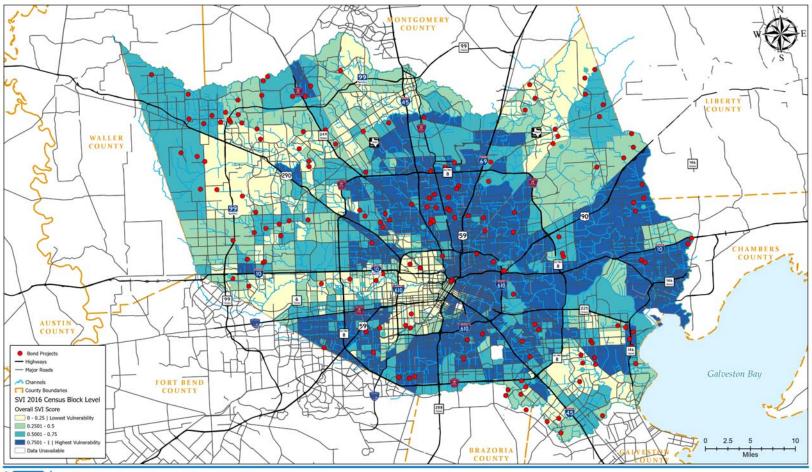
Russell A. Poppe, P.E. Executive Director

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Attachments: Project Status Map and associated tables

072820 AGENDA Transmittal of Project status in SVI areasDistrict Project Status Report





2018 Active Bond Projects
Shown with the Centers for Disease Control and

Prevention's Social Vulnerability Index Census Tract Data Set



Addicks Reservoir	Partnership	C-31		U900-01-00	Design and Comstruction of Little York Stormouter Determine Busin	0.90-0.75
Addicks Reservoir	Partnership. Partnership	C-98 C-48	6 Countywiste	US20-01-00 US30-00-00	Design and Construction of Dinner Creek Mormwater Detection Saxin Corps of Engineers Section 216 Study - Addicts and Sarker Reservoirs	0.50-0.75 0.75-1 [Highest Vulnerable
Addicks Reservoir	Partnership	C-MI	Louistporde	U001-00-00	Right-CK-Way Acquestion, Design and Construction of a Mormuster	0.30 - 0.75
Addicks Reservoir	local	FHII	784	1/200 co.oo	Detention Sean on South Mayde Creek Signs CE Way Areasonton, Design, and Construction of Westland Mitigation	0.75 - 5 [Highest Valmerable
		144		1000000	Sunk Barkabilitation of Channels Upsitesom of Addicks Reservoir to Resigne	
hddicks Reservoir Addicks Reservoir	total	1-56	-	U580-69-00	Obstant Conveyance Capacity Right-Of-Way Accordation, Design, and Construction of a Retention Area	0.75 - 3.3 Highest Valverable 0.75 - 3.3 Highest Valverable
Armand Sayou	Fartnership.	0.06	-	8112-00-00	Right-Of-Way Acquisition, Dwsign and Construction of \$112-00-00 and	0.75 - 1.1 Highest Verrenson
					Tributaries Conveyance Improvements. Design and Construction of the 8509-05-00 and 8509-04-00 Stormuster.	0.001011
Armand Bayer	Partnership.	0.01	1	8112-00-00	Detention Busins	0.75 - 1 Highest Vulnerati
Armand Bayes Armand Bayes	Community input Community input	0.03	2	8112-00-00	Brankglen Finading Mittgatton Analysis Right Of Way, Design and Construction of Conveyance Improvements	9.75 - 1 Highest Volteration
					along Princepes Buyon Investigations of General Drainage Improvements in Armand Bayon	
Armand Rayou	Partnership	7.60	. 2	8100-00-00	Watershed	0.75 - 5 Highest Volherati
Barber Reservoir	teol	F-62	3	1100-00-00	Renabilitation of Approximately 38 Miles of Channels Upstream of Barker Reservoir to Restore Channel Conveyance Capacity	0.75 - 1 Highest Volverson
Armyn Bayelor	Partnership	DH	1,2,83	0100-00-00	Brugs and Construction of Project Brays Coops of Engineers Section 21(1)) Project	9.75 - E.] Highest Volterals
Binya Bayası	Partnership	048		0113-00-00	Flamming, Righti-ON etray, Design and Construction of Conveyance Improvements along Birntiff Drich	0.75 - 3.) Highest Volterali
Strep Service	timat	147	- 1	0118-90-00	Planning, Right-Of-Way Acquisition, Design, and Construction of Channel Conveyance Improvements on Knegans Rayou	0.75 - 5.1 Highest Volterals
fron Bastu	Local	1.00	-	0140.00.00	Planning, Right-Of-Way Acquisition, Design, and Construction of Channel	9.75 - 1 i Highest Volnerati
Buffalo Books	Community Input	Ci-das	Construide	W100-00-00	Conveyance Improvements on Fondern Diversion Channel Investigations of Bridges and Potential Channel Byposses over Buffals	0.75 - \$ Highest Valveration
**********		1.00000			Bayou	
Buffalls Boyou	Local	F-81		W151 00-08	00-00 and W123-00-00	050-071
Carpenters Bayes	tinos	F-126		N100-00-00	Investigations of General Drainings Improvements along Carpenters Rayou	0.75 - 1 Highest Visiterso
Ceciar Bayesi	Linial	F-829	- 1	Q100.00-00	Band Implementation Management (BIM) of the Right of Way Acquistion, Dosign and Construction in Collar Rayou Watersholl	0.75 - 5 Highest Volnerali
Cedar Bayes	hinst	141	- 1	Q172-00-00	Right of Way Acquisition, Design and Construction of Channel	0.75 - 5 Highest Vulnerals
Ceriar Bassa	tool	141	- 2	G178-00-00	Right of Way Acquisition, Design and Construction of Channel	0.75 - 1 I Habert Volverali
					Conveyance Improvements along Astong Sitch Right of Way Association, Design and Construction of Charmel	
Coder Naymo	total	5-66	- 1	G136-00-00	Commission Improvements along Q150 00-00	8.75 - 1 Highest Valverali
Circlar Bayou	Local	1-45	2	G114-00-00	Planning, Right-Of-Way Augustition, Design and Construction of Channel Commission improvements on Q334-00-00 and Q334-00-01.	0.50-0.75
Cedar Bayou	Local	7-46	2	Q300-01-00	Right-Of-Way Association, Design and Construction of the QSOS-D1. Stormwider Detention Basin	0.75 - 1 [Highest Vulneral
Cedar Bayes	Local	7.47	- 1	Q506 00 00	Right-Of-Way Acquisition, Design and Construction of Monmeater	0.75 - 5 Highest Valverso
Cedar Royms	toral	148		0700.01.00	Detention Basins near Coasts' Water Authority cases and H 13 Design and Construction of Crosby Eastgate Environmental Mitigation	030-075
				A100.00.00	Sunk Hight Of Way Acquisition, Design and Condituction of Corps of Engineers	
Clear Creek	Partnership	C-08	•	A100-01-III	Clear Dreift Political Flood Blok Management Project Construction of booth Bell Discretizate Determine Basin (A120-CB SC)	8:75 - 1 (Highest Vulnerati
Clear Greek	total	0.09	. 1	A320-03-00	Along Busmor Road DISP (A170-90-00) and Dagg Road Sturminster	030-079
Clear Cress	Community input	C)-958	- 2	A104 00-00	Detention Boon on Clear Creek Restore Channel Conveyance Capacity on A184-00-00	0.50 - 0.75
Clear Creek	Community Input	0.43	1	A500-00-00	Construction of Stormwater Detection Saxies Near FM 526 and Disse Farm.	0.75 - 1 Highest Voltorals
Clear Creat	tocal	P-00	1	A115-00-00	Road in Frandswood Right-Of-Way Acquisition, Design, and Construction of Channel	030-079
					Conveyance improvements on A135-00-00 Identification, Design and Construction of the A700-01 Environmental	
Clear Creek	Local	9:76	18.2	A700 05 60	Mrtgatun Bank	0.75 - 1 Highest Volnerati
Capress Circle	Community topat	0.463	184	K120-00-00	Major Maintenance of Eggests Creek and Tributaries Update to 2003 Texas Water Development Board Cypress Creek Tributary	0.50-0.75
Cypress Dreek	Community Input	ciess	184	K100-00-00	Sharty and Investigate Expanding Stammwater Determine Basins in Copress Creek Watersheet	0.75 - 1 Highest Volterali
Cypress Creek	Local	F-20	164	K100-00-00	Cypress Creek Right of Way Acquisition and Floolyten Preservation	8.75 - 1 Highest Volcenia
Eagress Deek	toxat	F-211	4	K129-00-00	Restore Channel Conveyance Capacity on K129 00-00 Identification, Design and Construction of the K700-01 Environmental	0.50 - 0.75
Cypress Deek	Secol	524	- 1	K100-01-00	Mitgeton Kerk	0.50 - 0.75
Capress Creek	Partmership	146	1, 3, 8.4	X100-00-00	ROW Acquisition, Design and Construction of Stermuster Defendent Busins in Large Buyout Areas	0.75 - 5 Highest Vulnerals
Galveston Bay	tertmentrie	647	1	F236-00-00	Right of day Acquisition, Design and Construction of General Drainage Improvements Along F216-00-00	0.75 - 1.] Highest Walnesd
Sebroden Bay	- Partnership	F88	- 1	F180-90-90	investigations of General Disonage Improvements in Galveston Bay Watershed	0.75 - 3 Highest Voltrerati
Gossá Drank	Social	F-120	2	0100-00-00	Water United States of Contraction of General Drainage (Ng/N-CF-Way Assessments in Goline Creek watershed	0.75 - 3.1 Highest Valverad
Gonza Dreek	Partnership	F-121	- 1	0100 00-00	Investigations of General Drainage Improvements in George Crook	0.75 - 1 Highest Valverati
Green Creek	Partnership	F-121	-	0200 00 00	watershed investigations of General Drainage Improvements on Spring Guille	0.75 - 1 Highest Visitorials
Green Bayou	Partnership	5.00	182	P100-00-00	Mid-Brach Greens Bayou Project - Design and Construction of Channel	0.75 - 3 Highest Valverali
Green favor	Partnership	C-91	4	P135-00-00	Conveyance Improvements along Greens Bayou Breign and Construction of the Seein Road Channel Diversion	030-075
Greens Rayou	tient	0.00		P100-02-00	Design and Construction of the Cutters Road Stormwater Detertion Basin	830-975
Greens Bayou	Fartnership	C-89	1		Improvements: Design and Construction of Aldine-Westfeld Stammaster (Selection Rasin.	0.75 - 5 Highest Walness
				F300-04-00	Emprovements Design and Construction of Louder Stammuster Determine Stam	
Greens Bayou	Partnership	C-84	- 1	P500-05-00	Ingrovements	0.75 - 1 [Highest Vulnerals
Green Bayou	furtnership	6-43	12	F138-01-01	Planning, Right of Way Asquisition, Design and Construction of Channel Conveyance Improvements along FSSB 03-03	0.75 - 1 Highest Volhersb
Green Bayes	Community input	01022	.1	P130-05-01	NOW, Design, and Construction of Stammuster Defention Basin Near P130- 01	030-075
					Requiry and Enhancements to the Lower Greens Bayou Regional Deterritors	

Outs Revenu	Partnership	741	1	P514 30 00	Construction of PSSE 35 Normweter Determine Source	4.75-11 Highest Veltoratel
Halls Seumy	Patterning	6-21	1	P118-08-00		675-1 Highest Winerabil
	Parasetia:	0.24	11	P118-09-00	Right Of Way, Design, and Comprosition of Channel Conveyance	875-11 Highest Winestell
Halls Stephe					Improvements on P118-09-00 Right-Of Stay, Design, and Comstruction of Channel Conveyance	
mate Bayou	Partnership	6.35	1	P118-21-00	Improvements on F138-21-00	675-1 Highert Sunwishill
Hells Bears	Pertourning	C-26	1	F118-25-00	Right-Of Stay, Design, and Construction of Channel Conveyance Improvements on P119-23-00 and P119-23-00	6.75-1 Highest Valmerahilt
Halls Berry	Patenthia	0.28	- 1	F126 25 RD	Right-Of-New, Design, and Construction of Channel Consequence	9.75 - 1 I Habor Volverald
	100000				Improvements on P118-21-00 & P118-35-01 Right OF Boy, Design, and Construction of Channel Consequence	A CONTRACTOR OF THE PARTY OF TH
Helt Bayes	Partnership	C-30	1	F119 27 00	Improvements on F116-37-85	975-11 Highest Volcerabil
Halls Septem	Patrecky	C-33	1	P918-10-00	Design and Communities of Stormwater Detection Busin and Associated Observed Improvements	675-11 Highest Valvestol
mails Deute	Patriethy	541		P135-00-00	Planning, Right CR Way, Design and Construction of Halls Bayou Flood Risk	0.75-1 Highest Valmental
Halls Broom	Community liquid	0.006	1	P118 00 00		6.75 - 1 Highest Valmestell
Halls Strong	Seriel	6.122	1,2,64	P118 00 00	Bond replementation Management (Bifd) of the Right of Way	0.75 - 1 Highest Volverskill
					Acquisition, Design and Construction in Hells Boyou Watershed Sength and Construction of Corps of Engineers Hunting Septis, Section	
Harring Repre	Partiership	0.38	1	H100 00-00	2530 Project	671-1 Highest Valmetable
Marring Brans	Community Input	0.010	182	H203 00-00	District Cost Share of Stody with the City of Houston on Wallandle Durful.	050-075
Harring Bayes	Sate	F47.	167		Rate Of Way Acquisition, Design and Construction of Malicolle Outfall	0.50-0.75
Inches Bryers	Partnership	6-73	2	\$100-00-00	Investigations of General Drainage Improvements in Justices Bayes Watershad	675-1 Highest Welmitel
Lette Carress Creek	Farmening	F-20	-	1396-80-80	Management, Right of Way Acquisition, Design and Construction of the	030-079
Little Capress Creek	Pertourning	F-27	-	1385-91-96	Little Cypness Creek Frontier Program	0.50-875
Little Capress Creek	Later	1.00	-	1300-01-00		030-075
Little Capress Creek		F-102	-	1300 13 00	Detantion Basin	030-075
	Second	F-52	-	1334-01-00	Construction of Hagar Normanter Determine Spain Improvements Construction of Easer Modeliny Stammanter Determine Spain	030-871
Little Cypress Dresk	land.		3.		Improvements	
Loca Bayes Loca Bayes	Extraoring	F-81	2.	\$100-00-00 \$100-00-00	Lice Bayou Right of Way Acquestion and Readplain Preservation Investigations of General Drainage Improvements along Lice Bayou	050-075
San Jacinto River	Partnership	0.17	1,2,64	6305-00-00	San Jacobs River Watershad Study	0.75 - 5 Highest Valinerable
Samilacinto Siver	Community Input	C140	2	6112 00 00	Planning, Right Of Way Design and Construction of Conveyance Improvements along Parther Cook	675 - 11 Highest Volomaki
San Sacinta River	best	F-128	- 1	6003.00.00	Flanning, Eight Of Way Acquisition, Design and Communition of Greene	636-875
					Drainage Improvements Nage Fulfman Right Of Way Acquisition, Draign, and Construction of Stermoster	
Sims Bayers	Partnership	0.08	1	C118 00 00	Detention Bacin and Channel Consequence Improvements along Salt Water Draft	0.75 - 1 Highest Valnerate
Simi Bayos	Pertnership	C49	10	C147 (05 00	Right Of Way Acquisition, Design, and Construction of South Post Out. Stormwater Detention Bosin and Channel Conveyance Improvements stong 1347-00-00	675-1 Highest Velnerals
Simu Seyou	Patterning	C-31	2.:	CS05-01-00	Design and Construction of South Shover Stormwater Determine Source	875-1 FigNest Valnerabil
Similarity	Community Input	0.027	2	£106-00 00	Planning, Hight CF they Acquisition, Design, and Concruction of improvements for the 11-butains of C106-08-08	0.75 - 11 Highest Valmerals
Sime Bayers	Section	F-92	1	C116-00-00	Flamming, Rights Off Way Association, Design and Carnets unition Alleng CT 16-	6.75 - 1 Highest Valorabil
					and the second s	
Sima Bayora	Smel	7.04	1	C141-00-00	90.00	0.75 - 1 Highest Valverated
Simo Sayno	best	F-000	1.	C384-00-00	Planning, Right Of Way Requisition, Design and Communition Along C144 on on	675-1 Highest Veineski
Spring Creek	land	1-29	184	1130 00 00	Spring Creek Right of Way Association and Panalajum Preservation	0.75 - 1 Highest Valverain
Spring Croek	Partnership	175	75.4	1100 00 00	Regist of Way Augustion, Design and Communities of General Drainage	875 - 1 Highest Names and
Virve Bayre	Local	F-104	2	1500-00-00	Improvements in Visua Bayes Watershed	0.71 - 1 Highest Winesto
Vince Seyna	Patterring	8.78	2	1809-00-00	Innestigations of General Drainage Improvements in Vince Bayess Stateshed	0.75-1 Highest Volcoratol
When Dalt Brazes	Parametria	6.16	7184	X100.00.00	Design and Construction of Corps of Engineers White Dak Bayou Sestion	6.75 - 1 Highest Valmeratio
White Call Brytte	Pattership	648	1	1500-01-00	211F) Project Design and Construction of Arbor Delic Stormwater Detection Soon	6.75 - 1 Highest Valnerabi
White Oak Brown	Partnership	6-31	4		Design and Construction of Woodland Statis Stammarder Detention Busin	030-075
White Call Bryon	Furthership	C38	1		Right of Way Angeloties, Design and Construction of the North Cond	050-075
White Call Bryon	Partnership	6.59	1.	E506-21-00	Construction of Inwood Forest Starmwater Elementon Basin	6.75-1 Highest Valnerabil
White Call Styres	Lecal	1-01	183	E105-00-00	Planning, Right Of Way Acquirition, Design and Construction of Little White Ovk Bayos Channel Conveyance Improvements	0.75 - 3 Highest Valmerate
White Call Stydy	Lacel	F-32	4	E115-00-00	Right Of Way Actualytten, Design, and Communition of Channel.	8:75 - 1 Highest Valnerabil
					Cameyance Ingrevements on Brigthouse Sully	
William Cresk	Section	9.104	18.4	W100-00-00	Improvements in William Cresh Watershed	8:75-1 Highest Valverand
William Creek	Sanai	F-36	154	M 100-00-00	Willow Creek Right of Way Accuration and Floodplan Preservation Design and Construction of Channel Conveyance Improvements on MS24	9:75 - 1 Highest Valmerals
Willow Creek	Famoustip	8.07	4	M124 00 00	Design and Construction of Channel Conveyance Improvements on ME24- 30-30 Desenstroum of Srt 389	010-075
Willow Creek	Small	F-18	4	M328 01 00	Droign and Construction of Cigaress Resettli Starmouter Detention Busin	030-075
Willow Creek	Partnership	671	184	M109:00:00	Investigations of General Drainage Improvements in William Cross	0.75 - 1 (Highest Valmento
	Partnership Land	3.01		2109-00-00	Watershed	
Cauriyasia	Saral Fataenha	141		Z100-00-00	Furtnership Projects with Municipalities, Authorities, and Other Sixtricts	0.75 - 1 Highest Valnerabi 0.75 - 1 Highest Valnerabi
					in Harris, County	
Countywide Countywide	Partnership Level	100		7109-00-00 7109-00-00	Restruction Projects with the Harris County Engineering Despetations	675 - 1 Highest Valmeratol 0.50 - 8.75
Countywide	Local	2.05	Countywide	2109-00-00	Advanced Emerging Sychochigies for Flood Damage Reduction	6.75 - 1 Highest Valnerabl
Countywide	Local	206	Countywide	Z100-00-00	Bond Administration	0.75 - 1 Highest Vulnerabi
Countyvide	Local	2-67		2100-00-00	Community Engineering for Large Demoker Tutme's for Dominator	0.75-1 Mighest Valmerabi
Enumpaide	Partnership	2.08		2109-00-00	Consumor	8.75 - 1 Highert Valnerabi
Countyvide	fietnership	349	Countywele	Z109-00-00	Epgrades and Espansion of the Harris Equally Fixed Warring System	0.75 - 1 Highest Valverals
Countywide Countywide	Farmership.	2.00	Countywide	Z109-00-00 Z109-00-00	Magness - Havis County Floodylain Mapping Lipitales Countywide Communications Relating to 2018 Band and CP Properts	6.75 - 1.1 Highest Vulnerable 6.75 - 1.1 Highest Vulnerable
Countywide	Brynst	2 Bayrut	Enurywide	2100-00-00	Federal Strant Funded Visionteen Home Buyouts	. 6:75 - 1 Highest Valnerabl
Countywale	Storm Repair	2.formfay	Countywide		Countywide Steam Reports to Hants County	6.75 - 1 Figher Minerals
Coursepoids	Subdivision Drainage	Those .	Controlle	7100.00.00	Herm County Engineering Department Countywide Subdivision Dramage	675 - 1 Highest Valuable
	Impresented		- James		Improvement Projects	Second Conference Second



