HARRIS COUNTY

Rm. up,

Dublic Inf						
Public Inti	rastructure Departme	nt		1001 Pr	eston, 7 th F	Floor
Architectu	re & Engineering Divi	ision		Housto	n, Texas 7	7002
			14.1		(713) 755-	5370
December 5	5 2014		Vote of the Cour			
December 3	5, 2014		leadore Carrage	Yes No	Abstain	
Honorable (County Judge		Judge Emmett	出口		
& Commissi			Comm. Lee	44 14		
& Commissi	ioriers		Comm. Morman	$\Psi \Box$		
Attention:	Commissioner R. Jack	Caglo	Comm. Radack			
Attention.	Commissioner N. Jack	Cagle	Comm. Cagle			
SUBJECT:	Recommendation by Commissioners' Couthe Houston-Galves Intersection Capacity	irt Authorize ston Area	the Submission Council for C	n of a Gran	nt Application Funding	on to
Dear Court	Members:					
authorize su inclusion of \$5,980,375. in Precinct	ecture and Engineering I ubmission of a grant appli f funding in the Transp 00 for the construction of 4. The purpose of the on projects of regional price	cation to the ortation Importation Intersection TIP program	Houston-Galvest rovement Progra Capacity Improve	on Area Col m (TIP) in ements at V	uncil for pote the amout arious Loca	ential nt of itions
If funds are expenses as	e awarded, Precinct 4 v s follows:	would be re	quired to commi	t \$2,451,95	53.00 for re	lated
Total:	Matching Funds:	\$ 1,194,359.0 \$ 1,257,594.0 \$ 2,451,953.0 bove request	00	eciated.		
Sincerely,			Presented	to Commission	ners' Court	
	Syl-		n	EC 1 6 201	14	
John Blount	PE (
	chitecture & Engineering		APPROV		1	
(5,190,10.1,7.11)			Recorded	VolPa	age	
JB/BN/vht						-0.5
Attachment	s			O)4	- 3-4	
	nmissioner R. Jack Cagle	, Pct. 4	Janice Maaskant		nn_	
Che	ryl Guenther, Pct. 4		Mark Ables, HCF			فهيد
Pam	nela Rocchi, Pct. 4		Reid Mrsny, HCF			;
Lanco. copy Den	nis Johnston, Pct. 4		Loyd Smith, HCF			
_h ^ Dill L	Lee, Pct. 4		Ron Jenson, HC			\mathbb{Q}^2
	dy Mayfield, Pct. 4		Nora Martinez, H	CPID		. 3
US- Ors lette + C	our L. Storey, Jr., HCPID Order 1997 back	IP	Central File			. 🔾
	ce order ors bac					
Bulge of Panjapa	processing\!court\2014\budget	mgmt agenda -	12-16-14 hgac grant	-intersectionn	.doc	

Grant



HARRIS COUNTY, TEXAS

Office of Budget Management 1310 Prairie, Suite 530 Houston, Texas 77002 (713) 755-3301 Grants Coordination Section - Conveyance Form Application Award

If applicable, Prior

Year Org. Key:

<u>x</u>	
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N/A

Department Name / Number	r D	UNS	Gra	int Title	
PUBLIC INFRASTRUCTURE - 030	0722	206378	Intersection Capa	acity Improvements '15	
Funding Source: U.S. Department of	Transportation: CFDA#		Grant Agency: Houston-Galv	veston Area Council	
Program Year:	1 st		Program Ending:		
Grant Begin Date:	06/01/2015		Grant End Date:	12/31/2017	

Grant Description:

Grant Org. Key:

Funded by the U.S. Department of Transportation via the Texas Department of Transportation via the Houston-Galveston Area Council, the Transportation Improvement Program provides grant funding for roadway, transit, bicycle and pedestrian, livable centers, and air quality projects.

	Total Budget	Grant Funded	County Funded
Salary & Benefits	\$0.00	\$0.00	\$0.00
Non-Labor	\$8,432,328.00	\$5,980,375.00	\$2,451,953.00
Sub Tot. Incremental Cost	\$8,432,328.00	\$5,980,375.00	\$2,451,953.00
Indirect Cost	\$0.00	\$0.00	\$0.00
TOTALS	\$8,432,328.00	\$5,980,375.00	\$2,451,953.00

Full Time Equivalent Positions	0.00	Date Guidelines are Available	
% of Positions Paid by Grant	0.00 %	Grant Submittal Deadline Date	01/12/2015

Grant Discussion:

The Public Infrastructure Department, in coordination with Precinct 4, is applying for grant funding of \$5,980,375 under H-GAC's 2015 Transportation Improvement Program for the Intersection Capacity Improvements project. Grant funds would be used for construction of improvements at various intersections located within Precinct 4. The goal of the project is to improve traffic flow and reduce congestion at 38 signalized intersections. Precinct 4 would provide a match of \$2,451,953, consisting of \$1,257,594 in required match plus an additional \$1,194,359 in discretionary funds for engineering costs. Note: This grant would be administered by TxDOT, and the County would not actually receive any grant funds.

County Funded Cost Projection

Year	Required	Discretionary
2016	628,797.00	597,179.50
2017	628,797.00	597,179.50
2018	-	-
2019	-	-
2020	-	-

Completed by:	Klian	Schmitz, Brian	Da
Reviewed by:	Jan	(Hape.	Da

Date: 12/10/14

Date: 12/10/14

ORDER

ST	ΔΤ	F	\bigcirc	T	FX	Δ	S

COUNTY OF HARRIS

County, Texas, sitting as the governing bod	2014, the Commissioners' Court of Harris ly of Harris County, upon motion of d by Commissioner Morman, duly
approve, and on behalf of Harris County, To	nmett or his designee be hereby authorized to exas, to apply for, the following grant from the Texas Department of Transportation via
INTERSECTION CAPACITY IN INFRASTRUCTURE DEPARTM	
Grant Funds:	\$5,980,375
Cash Match:	\$2,451,953
Estimated Grant Period:	June 1, 2015 – December 31, 2017
Vote of the Court: Yes No Abstain Judge Emmett	Presented to Commissioners' Court DEC 1 6 2014 APPROVE C 1 M
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R. Jack Cagle, Commissioner

Harris County Precinct 4 1001 Preston, Suite 950 Houston, Texas 77002 713.755.6414 713,755,8801 Fax Website: www.hcp+.net

MEMORANDUM

TO:

Arthur L. Storey, P.E.

Harris County Public Infrastructure Department Architecture and Engineering Division (HCPID-AED)

Attn: Janice Maaskant, Project Coordinator

FROM:

R. Jack Cagle, Commissioner

Precinct Four

DATE:

November 18, 2014

SUBJECT:

Intersection Capacity Improvements

Beltway 8 West Corridor - 12 Intersections

SH 249 Corridor – 5 Intersections FM 529 Corridor – 7 Intersections

SH 6/FM 1960 Corridor - 12 Intersections

Spring Cypress Road Corridor

Referral: 140728.14

Precinct 4 and the Harris County Public Infrastructure Department-Architecture and Engineering Division/Traffic Support Services (HCPID-TTS) identified corridor improvements that will provide an improved level of service along the Beltway 8 West Corridor, SH 249 Corridor, FM 529 Corridor, SH 6/FM 1960 Corridor. A total of 37 intersection improvements, along the corridors described will be upgraded to address capacity needs. Therefore, we would appreciate your office obtaining Commissioner's Court approval to pursue the Houston-Galveston Area Council call for projects application process.

The Intersection Capacity Improvements qualify for federal and state funding. We recognize Precinct 4 expenses include engineering design and 20 percent construction costs (representing a total estimated construction cost of \$1,257,594 and approximately \$1,194,359 for engineering design) should the project be selected.

Additional information regarding this project is noted on the enclosed Project Scope. Funding information can be obtained from Esmeralda Rodriguez, Capital Improvement Projects Financial Coordinator at (281) 893-3726 or via email at erodriguez@hcp4.net.

Thank you for your assistance. Please contact Pamela Rocchi, Director, Capital Improvement Projects Division, at (281) 893-3726, should you have any questions.

RJC/PJR/mm enclosure

cc:

C. Guenther, Chief of Staff

B. Lee, General Superintendent

G. Love, Superintendent

C. Mayfield, Director, Administrative Services

D. Dean, Superintendent

F. Jebousek, Superintendent

E. Rodriguez, CIP Financial Coordinator K. Brown, Fiscal Services Coordinator

PROJECT SCOPE

PROJECT NAME:

Intersection Capacity Improvements

LOCATION:

Key Map Pages: 371V, 371T, 371S, 370V, 370U, 370T, 370S, 370W, 369Z, 409H, 410J, 410N, 411B, 371W, 369C 329T, 408R, 408Q, 408P, 407Q, 407P, 406R, 408S, 408F, 408V, 260W, 260W

369W, 369T, 369U, 370D, 331W, 332L, 333K,

335S, 336V

ROAD LOG NO.s:

4808508, 4316908, 0400316, 0409106, 4374718, 0428009, 4186210, 4250706, 0493636, 4670601, 4902712, 0400319, 0467002, 4823627, 4219317, 4219321, 4208605, 4244816, 4578401, 4441206, 4408601, 3052405, 43303401

4578401, 4441206, 4498501, 3053405, 4W03401,

4W27002, 0429016, 0493631, 4250706,

3198109, 4123201, 4016204, 4316905, 4387302,

1W30101, 1209712, 1W82001, 4198603

DATE:

November 18, 2014

FUNDING:

Bond Referendum/Mobility Funds

Federal and State Funds

SCOPE: Proposed improvements include the design and construction of (37) intersection improvements at the following locations:

Beltway 8 West Corridor - 12 Intersections [\$2,551,563]

a. Local Engineering fees \$332,813

b. Local Construction cost \$281,250

c. State cost

\$162,500

d. Federal cost

\$1,775,000

Beltway 8 at: T. C. Jester Boulevard, Veterans Memorial Drive, Antoine Drive, Bammel N. Houston Road, Hollister Road, SH 249, Fairbanks N. Houston Road, N. Gessner Road (North Side), N. Gessner Road (South Side), Fallbrook Drive, West Road, Philippine Street, W. Gulf Bank Road

SH 249 Corridor - 5 Intersections [\$1,221,875]

a. Local Engineering fees \$159,375

b. Local Construction cost \$187,500

c. State cost

\$25,000

d. Federal cost

\$850,000

SH 249 at: Antoine Drive, N. Houston Rosslyn Road, Cypresswood Drive, Louetta Road (East Side), Louetta Road (West Side), Jones Road including Spring Cypress Road from SH 249 to Hufsmith Kohrville Road.

SH 249 at Spring Cypress Road between SH 249 and Hufsmith-Kohrville Road [\$912,969]

a. Local Engineering fees \$209,983

b. Local Construction cost \$182,594

c. State cost

\$0

d. Federal cost

\$730,375

FM 529 Corridor - 7 Intersections [\$1,150,000]

a. Local Engineering fees \$150,000

b. Local Construction cost \$150,000

c. State cost

\$50,000

d. Federal cost

\$800,000

FM 529 at: N. Eldridge Parkway, Jackrabbit Road, Huffmeister Road, Addicks Satsuma Road, Queenston Boulevard, Barker Cypress Road, Greenhouse Road

SH 6/FM 1960 Corridor - 12 Intersections [\$2,623,438]

a. Local Engineering fees \$342,188

b. Local Construction cost \$456,250

c. State cost

\$0

d. Federal cost

\$1,825,000

SH 6/FM 1960 at: W. Little York Road, West Road, Fallbrook Drive, Jones Road, Bobcat Road, Champion Forest, Veterans Memorial Drive/Stuebner Airline Road, Imperial Valley Drive, Humble Westfield Road/Treaschwig Road, Aldine Westfield Road, Kenswick Drive, Woodland Hills Drive

NOTE: 11.17.14 TxDOT has already evaluated the North Eldridge Parkway at Hwy 6/FM 1960 intersection and prepared a schematic design. Therefore, HCPID-TTS will continue to communicate with TxDOT to ensure TxDOT advances the work as planned.

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Director	of Capital Improvement Projects
281-893-	2736
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procenie	Phcp4.net
internal and an analysis	
	ion Capacity Improvements at various locations in Harris County
intersect	ion capacity improvements at various locations in Harris County
in the habital and a	
Harris Co	
	noject cean submitted in a pitor call?
Х	No
	Yes
is the sp	slication requesting a minimum of \$150,000?
	No
X	Yes
anten at the storal Co	
	oint epplication?
X	No
	Yes
	proposed project scope quality for use of a categorical exclusion (CE) and no unusual drumstances ch would require additional environmental investigation?
	The second of th
	No
Х	Yes
	posed project exempt from transportation conformity or regional emissions analysis?
is the pro	
	No
Х	Yes

á

Preliminary Questions

Project Narrative

Searthe the primary problems to be addressed by the project (Project Need):

Northwest Harris County is experiencing increased development and population due to the region's vibrant economy. Increasing traffic as a result of this growth is causing a degradation of traffic operations on Harris County roadways. The problem is especially acute at major intersections, where additional capacity for turning movements would provide relief from localized congestion. The locations identified for these improvements have been identified over the years by observation and citizen feedback. They are considered "hot spots" in Harris County Precinct 4 which would benefit greatly by the improvements.

Describe the primary outcomes to be achieved by the project (Project Purpose):

The proposed geometric improvements at intersections will increase overall intersection capacity as well as alleviate delay on bottleneck approaches. This in turn will have a net positive effect on the overall roadway network by lessening choke points.

Describe the proposed improvement (Facility/Umits/Description):

The improvements are proposed at 38 signalized intersections in Precinct 4, the majority of which intersect TxDOT-owned and maintained roadways. They consist of; adding new left turn and right turn lanes, extending existing left turn lanes, addition of auxiliary lanes, and access managment via installation of a raised median.

Sexcibe any alternatives to the proposed improvement which have been considered or will be evaluated:

At signalized intersections, traffic signal timing has been adjusted to optimize the efficency with the existing geometry. No further improvement can be achieved without the proposed geometric modifications.

Please describe any opportunities for staged construction of the project

The construction could be staged by grouping locations by corridor or geograpical location.

Project Development/Readiness

	HBS 8 500	ng meeting been conducted with TxDOT or FTA?
-	Y	No

Yes (Please attach a completed scoping checklist or meeting summary)

What level of environmental documentation is required for the proposed project?

X Categorical Exclusion (CE)
Environmental Assessment (EA)
Environmental Impact Statement (EIS)

Will any permits from the Army Corps of Engineers, US Coast Guard, railroad, etc. be required before the project can be constructed?

X N

Yes - Please describe the permits needed and the timeline anticipated to acquire them:

Traffic signal timing has been optimized at all of the locations to its maximum extent. No additional benefit can be achieved without geometric improvements.

Please provide an estimated completion date for the 30% Design/PS6s milestone

The 30% Design should be completed within 90 days of notice to proceed.

Will additional property of interest in property (easement), be required to implement the project?

X No Yes

How many parcels or portions thereof remain to be acquired?

Please provide an estimated date for the completion of property acquisition necessary for construction activities to begin:

Has a small, revaluation been completely of the project and the second of the second

X No

Please describe the process for utility adjustments/relocations (entity responsible, financial responsibility, etc.):

Preliminary Questions

Attachment

	No No
Х	Yes - Please describe the affect and supply evidence of support from the affected agency:
Several of	the proposed improvements are at County road intersections with TxDOT highways. Improving the county-maintained approaches to these
intersection	ons will reduce overall delay for the entire intersection. Additionally, several of the proposed improvements are located on TxDOT facilities.
Discussion	s with TxDOT staff have been positive and in support of any improvement to their infrastructure.
A ARKEN	carbo previous and up-communitation provides activated related to the proposed project
No public	involvement activities have occurred. Any future public involvement will comply with TxDOT policies and procedures.
	ordes by assertions: an perdevelopment/readiness information relevant to the proposed project:
No additio	nal right of way is required.
1	
Map/Lo	cation
严重 化电路	

Benefit /Cost Methodology - Roadway/Mobility (Non-ITS)

	ect the most appropriate Benefits-Cost Analysis (select ONE):
	Safety - Accident Cost Savings
X	Congestion - Travel Time Savings
	State of Good Repair - Operating/Life-Cycle Cost Savings

Attachments

Planning Factors - Roadway/Mobility (Non-ITS)

Regional Impact

	Ill the project improve a NHS/Principal Arterial or a designated evacuation route?:
Х	No (0 pts)
	Designated evacuation route (10 pts)
	NHS/Principal Arterial (20 pts)

K	No
	Yes - Please explain:

X	No
	Yes - Please explain:

Design/Corridor Mobility

	No ·
x	Yes - Please explain:

^	INO .
	Yes - Please explain:

4	per project include a significant ITS or other integrated technology component to increase facility efficiency and
Х	No

Yes - Please explain:	

Community

Yes - Please explain:	(No
		Yes - Please explain:

	No
X	Yes - Please explain:

