Memorandum

DATE September 27, 2019

^{TO} Honorable Mayor and Members of the City Council

SUBJECT Infrastructure Management Program Updates and Public Works' FY 2020 Initiatives

On Wednesday, October 2, 2019, the City Council will be briefed on accomplishments of the FY 19-23 Infrastructure Management Program (IMP), project updates of the FY 20-24 IMP, and Public Works' FY 20 Initiatives. The briefing material is attached for your review.

Please feel free to contact me if you have any questions or need additional information.

Majed Al-Ghafry, P.E. Assistant City Manager

[Attachment]

C:

T.C. Broadnax, City Manager Chris Caso, City Attorney (Interim) Mark Swann, City Auditor Bilierae Johnson, City Secretary Preston Robinson, Administrative Judge Kimberly Bizor Tolbert, Chief of Staff to the City Manager Jon Fortune, Assistant City Manager Joey Zapata, Assistant City Manager Nadia Chandler Hardy, Assistant City Manager and Chief Resilience Officer Michael Mendoza, Chief of Economic Development and Neighborhood Services M. Elizabeth Reich, Chief Financial Officer Laila Alequresh, Chief Innovation Officer Liz Cedillo-Pereira, Chief of Equity and Inclusion Directors and Assistant Directors



Infrastructure Management Program Updates and Public Works' FY 2020 Initiatives

City Council Briefing October 2, 2019



Robert M. Perez, Director Department of Public Works

Purpose of Briefing

- Highlight activities of the FY 2019-2023
 Infrastructure Management Program (IMP)
- Project Updates of the proposed FY 2020-2024 IMP
- Discuss Public Works FY 2020 Initiatives





- City of Dallas' Public Works
 Department established a Five-Year
 Infrastructure Management Program
 (IMP) for FY 2019-2023
 - Listed the streets, alleys, and sidewalks programmed for maintenance outside of the Bond Program
 - Provided pavement condition assessment data
 - Used as a project coordination tool





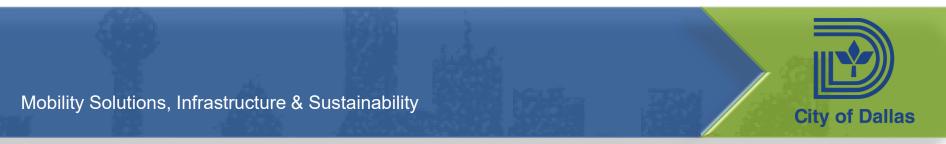


 The IMP and the project listings by Council
 District are posted on the Public Works' Pavement
 Management Website

	Public Works Street Maintenance Projects - FY 18					
	Project Street	From Block	To Block	Project Description	Council District	Treatment Type
101	TH ST (E)	300	300	Dead-end to Patton Ave (S)	1	Peservation
107	TH ST (E)	800	900	Ewing Ave (S) to R L Thornton Serv W (S)	1	Maintenance
107	TH ST (W)	2300	2300	Hollywood Ave to Tennant St (S)	1	Peservation
127	TH ST (W)	1500	1600	Windomere Ave (S) to Rosemont Ave (S)	1	Maintenance
127	TH ST (W)	2500	2600	Franklin St (S) to Superior St	1	Maintenance
	H ST (W)	200	300	Zang Blvd (N) to Bishop Ave (N)	1	Peservation
6TH	H ST (E)	700	700	Lancaster Ave (N) to Ewing Ave (N)	1	Maintenance
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Public Works		- H	111		4	ervation ervation
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https://dallascityhall.com/departments/ public-works/Pages/pavementmanagement.aspx

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- Streets Completed 822
 miles of maintenance (Bond
 resurfacing and General
 Fund; Goal: 820 miles)
- *Sidewalks Completed 5 miles (Goal: 5 miles)

*Does not include Bond sidewalk projects or projects included in the Sidewalk for Seniors Program

 Unimproved Alleys – Completed 89 unimproved alleys (Goal: 79)







- FY 2020-2024 IMP will provide planned maintenance for:
 - Streets
 - *Bridges (new program in FY 2020 \$1 million budgeted)
 - Alleys
 - Sidewalks
 - Pavement markings (Transportation)
- Provides updated pavement condition assessment data (major vs. minor streets, heavily utilized streets)

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FY 2020-2024 IMP to be published in November 2019



• The FY 2020-2024 IMP is programmed as follows:

	Proposed Five-Year IMP Program Budgets						
	Program	FY 20	FY 21	FY 22	FY 23	FY 24	Total
*Note: Grey- shaded fields indicate funds that will need to be identified during future budget deliberations. Only FY 20 is budgeted.	Streets	\$52.6M	\$50.5M	\$50.5M	\$50.5	\$50.5M	\$254.6M
	Bridges	\$1.0M	\$1.0M	\$1.0M	\$1.0M	\$1.0M	\$5.0M
	Sidewalks	\$2.3M	\$2.2M	\$2.2M	\$2.2M	\$2.2M	\$11.1M
	Alleys	\$1.6M	\$4.0M	\$4.0M	\$4.0M	\$4.0M	\$17.6M
	Total	\$57.5M	\$57.7M	\$57.7M	\$57.7M	\$57.7M	\$288.3M



 Between FY 2020-2024, \$526.0M is programmed for street projects between the IMP and Bond funds

Projected Five-Year IMP and Bond Program Budgets - Streets						
Program	FY 20	FY 21	FY 22	FY 23	FY 24	Total
IMP	\$52.6M	\$50.5M	\$50.5M	\$50.5M	\$50.5M	\$254.6M
Bond	\$32.8M	\$113.0M	\$25.6M	\$50.0M	\$50.0M	\$271.4M
Total	\$85.4M	\$163.5M	\$76.1M	\$100.5M	\$100.5M	\$526.0M



- Street Maintenance Program Pavement Condition Index (PCI) Ratings
 - All street segments issued a PCI Rating
 - "0" = failed street, "100" = brand new street
 - Average PCI of Dallas' streets is 65.1 for FY 19 and is projected to be 64.6 for FY 2020

City of Dallas PCI Ranges				
Letter	PCI Range			
А	100-85			
В	70-84.9			
С	55-69.9			
D	40-54.9			
E	0-39.9			





- Street Maintenance Program

 Pavement Condition Index (PCI) Ratings
 - District PCI Ratings
 - Takes into account all work (Bond and maintenance) completed in FY 2019

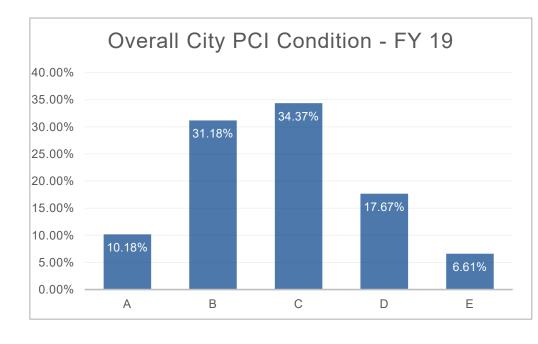
City	Street Lane Miles and Citywide and District Ratings - FY19						
CD	Lane Miles	FY 18	FY 19	*FY 20			
1	751	61.0	60.7	60.5			
2	938	61.8	60.8	59.8			
3	992	71.3	71.0	70.3			
4	922	62.2	62.2	61.7			
5	709	63.5	64.0	63.6			
6	1,071	66.4	65.7	65.5			
7	874	66.0	65.9	65.2			
8	877	70.0	69.8	69.5			
9	909	63.9	63.5	63.0			
10	734	69.0	68.4	68.4			
11	622	66.3	65.7	65.3			
12	626	72.4	72.1	71.8			
13	1,010	64.3	63.6	62.7			
14	740	58.2	58.0	57.6			
Total	11,775	65.4	65.1	64.6			

*Projected

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Overall Pavement Condition and by Council
 District
 Pavement Condition by Council D



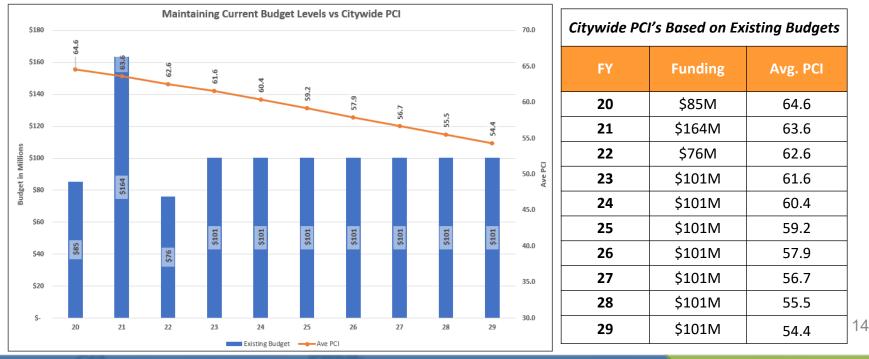
Pavement Condition by Council District						
CD	Α	В	С	D	E	
1	6.0%	24.4%	35.4%	24.3%	10.0%	
2	5.9%	25.5%	36.1%	21.5%	11.1%	
3	19.0%	36.5%	32.4%	8.8%	3.2%	
4	7.5%	23.1%	39.0%	22.9%	7.5%	
5	8.8%	28.3%	37.4%	17.7%	7.9%	
6	9.6%	30.8%	38.5%	16.4%	4.8%	
7	12.1%	31.7%	32.8%	17.8%	5.6%	
8	22.6%	33.1%	24.9%	12.3%	7.1%	
9	5.8%	28.6%	39.8%	22.7%	3.1%	
10	10.6%	43.6%	30.5%	11.7%	3.6%	
11	6.8%	36.4%	35.9%	15.9%	4.9%	
12	15.0%	49.9%	24.7%	8.4%	1.9%	
13	6.4%	29.9%	38.8%	18.2%	6.7%	
14	5.3%	20.9%	30.4%	27.9%	15.5%	

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Mobility Solutions, Infrastructure & Sustainability

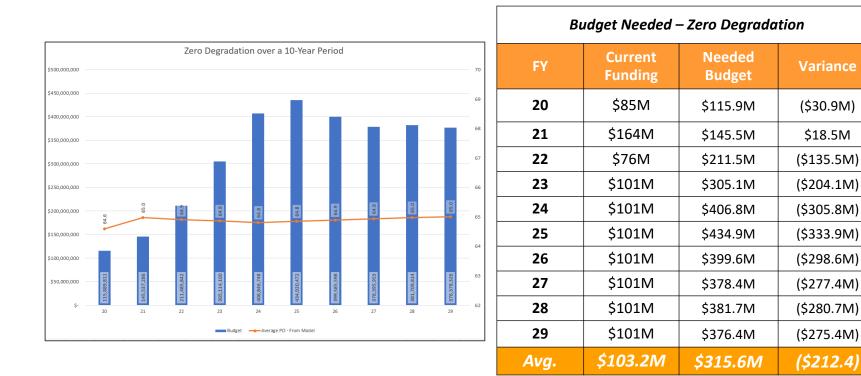
 Projected PCI's based on Existing Budgets (Maintenance and Bond)





Mobility Solutions, Infrastructure & Sustainability

Budget needed for Zero Degradation in PCI

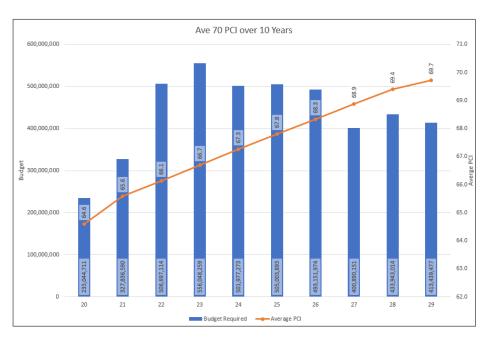




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Mobility Solutions, Infrastructure & Sustainability

 Budget needed to increase PCI by one point annually



Budget	Budget Needed – Increase PCI 1 Point Per Year					
FY	Current Funding	Needed Budget	Variance			
20	\$85M	\$235.0M	(\$150.0M)			
21	\$164M	\$327.8M	(\$163.8M)			
22	\$76M	\$506.7M	(\$430.7M)			
23	\$101M	\$556.0M	(\$455.0M)			
24	\$101M	\$502.0M	(\$401.0M)			
25	\$101M	\$505.0M	(\$404.0M)			
26	\$101M	\$493.2M	(\$392.2M)			
27	\$101M	\$400.9M	(\$299.9M)			
28	\$101M	\$433.9M	(\$332.9M)			
29	\$101M	\$413.4M	(\$312.4M)			
Avg.	\$103.2M	\$437.4M	(\$334.2M)			

Mobility Solutions, Infrastructure & Sustainability

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City of Dallas

FY 2020-2024 IMP Development

- Sidewalk Maintenance Program
 - Program proposes 7–20 projects annually, depending on budget capacity (Avg. \$2.2M/year; \$11.1M over five years)
 - Projects focus on smaller-scale projects to fill-in gaps of missing sidewalk and broken panels
 - Public Works and Code Compliance to evaluate capacity for Sidewalks for Seniors in FY 2020





FY 2020-2024 IMP Development

- Unimproved Alley Maintenance Program:
 - Continues FY 2019 Pilot Program improvements in gravel alleys
 - Funded at \$1.6M for FY 2020
 - Program proposes 100 projects annually
- Bridge Maintenance Program:
 - Funded at \$1M in FY 2020
 - Will provide for design and repair of 2-4 bridges annually





Public Works FY 2020 Initiatives



Public Works FY 2020 Initiatives

- Continue quarterly reports of Council District construction projects
- Preventative treatment pilot programs
 - Concrete street joint seal
 - Onyx sealant in-house option
- Asphalt plant feasibility study and alternative construction/ resurfacing material
- Evaluation of lane closure fees and use of off-duty police officers for traffic control
- Pavement Management Services contract for review of models for paving treatments





Public Works FY 2020 Initiatives

- Coordination with Dallas County on cost-share maintenance work (arterial streets)
- Dallas County Major Capital Improvement Program (MCIP) – 7th Call for projects
 - \$270M Available starting in FY2022
 - October 18, 2019 due date for submittal
- Collin County Call for City Projects
 - Collin County's 2018 Bond Program
 - \$36M Available only one project funded per City
 - October 31, 2019 due date for submittal
- Call for project listings will be memorialized in memos to the Mayor and City Council before submission





Completed & Planned Work for the 2017 Bond Program

- Proposition A
 - FY2019 Awarded 295/316 design projects (93/100 project groups)
 - FY2020
 - 48 expedited projects totaling ~\$30.6M starting construction in 1st Quarter of Calendar year 2020
 - 167 Projects to be bid/awarded for construction totaling ~\$95.1M
 - FY2021
 - 94 Projects to be bid/awarded for construction totaling ~\$76.5M
 - FY2022
 - 7 Projects to be bid/awarded for construction totaling ~\$33.9M (many interagency projects)
 - Resurfacing
 - Awarded construction for the last two years of program



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City Council Briefing October 2, 2019



Robert M. Perez, Director Department of Public Works

Appendix



- FY 2020-2024
 Projected
 Maintenance
 and Bond street
 lane miles per
 district
- FY 2020 Street Goal: 710 lane miles

Council District	FY 20 Lane Mile Distribution	FY 21 Lane Mile Distribution	FY 22 Lane Mile Distribution	FY 23 Lane Mile Distribution	FY 24 Lane Mile Distribution
1	37.1	19.9	22.2	26.8	18.1
2	23.3	32.3	33.9	36.8	28.1
3	48.5	39.1	31.8	46.0	46.8
4	34.5	25.6	33.1	38.4	30.3
5	28.1	25.6	27.7	21.9	21.6
6	99.0	58.0	47.5	41.5	37.4
7	25.7	46.8	34.4	40.6	35.9
8	84.4	33.2	40.0	38.7	47.7
9	49.0	60.5	37.6	46.1	34.9
10	48.3	41.0	40.8	31.8	30.0
11	65.4	28.4	35.5	25.3	36.7
12	33.5	37.3	40.5	32.6	33.7
13	91.7	60.3	46.6	41.5	46.6
14	41.6	31.3	24.8	27.1	21.8
Total	710.1	539.3	496.4	495.1	469.6

