

MOBILITY SOLUTIONS, INFRASTRUCTURE & SUSTAINABILITY COMMITTEE  
DALLAS CITY COUNCIL COMMITTEE AGENDA

RECEIVED

2018 AUG -9 PM 12:56

CITY SECRETARY  
DALLAS, TEXAS

MONDAY, AUGUST 13, 2018  
CITY HALL  
COUNCIL BRIEFING ROOM, 6ES  
1500 MARILLA STREET  
DALLAS, TEXAS 75201  
2:00 P.M. – 3:30 P.M.

**Chair**, Councilmember Lee M. Kleinman  
**Vice Chair**, Councilmember Rickey D. Callahan  
Councilmember Sandy Greyson  
Councilmember Adam Medrano  
Councilmember Casey Thomas, II  
Councilmember Tennell Atkins

Call to Order

1. Approval of June 25, 2018 Minutes

**BRIEFINGS**

2. Autonomous Delivery Vehicles  
Michael Rogers, Director  
Department of Transportation
3. Dallas Love Field Master Plan Update  
Mark Duebner, Director  
Department of Aviation

**BRIEFING MEMO**

4. Margaret McDermott Bridge Status Update

**5. UPCOMING AGENDA ITEMS**

**August 22, 2018 (Draft)**

- A. File ID 18-583: Authorize a contract for the construction of street paving, drainage, water and wastewater main improvements for Gardenvue Drive from Alto Garden Drive to Loma Garden Avenue - Tiseo Paving Company, lowest responsible bidder of seven - Not to exceed \$675,932.20 - Financing: Street and Transportation Improvement Funds (2012 Bond Funds) (\$562,113.00), Water Utilities Capital Improvement Funds (\$103,287.20) and Water Utilities Capital Construction Funds (\$10,532.00) (PBW)
- B. File ID 18-443: Authorize a thirty-year contract with the City of Coppel to provide untreated water services from August 22, 2018 through August 21, 2048 - Estimated Annual Revenue: \$1,010,138.00 (at current wholesale water rate) (PBW)
- C. File ID 18-460: A public hearing to receive comments to amend the City of Dallas Thoroughfare Plan to change the dimensional classification of Chalk Hill Road between Davis Street and Singleton Boulevard from a six-lane divided roadway [M-6-D(A)] in 100 feet of right-of-way to a four-lane divided roadway (SPCL 4D) with bicycle facilities in 100 feet of right-of-way, and at the close of the hearing, authorize an ordinance implementing the change - Financing: No cost consideration to the City (see Fiscal Information for potential future costs) (TRN)
- D. File ID 18-576: Authorize (1) a reimbursement agreement with Atmos Energy for construction costs associated with the restoration of three alleys: 3703-3771 Cortez Drive & 3702-3770 Durango Drive; 3903-3991 Cortez Drive & 3904-3990 Durango Drive; and 3505-3523 Park Lane & 3511 Valley Ridge Road; affected by replacement of

**A quorum of the City Council may attend this Council Committee meeting**

- gas lines in northwest Dallas in an amount not to exceed \$67,583.00; (2) the receipt and deposit of funds from Atmos Energy in an amount not to exceed \$ 67,583.00; and (3) an increase in appropriations in the amount of \$67,583.00 in the Capital Projects Reimbursement Fund - Not to exceed \$67,582.50 - Financing: Capital Projects Reimbursement Funds (PBW)
- E. File ID 18-459: A public hearing to receive comments to amend the City of Dallas Thoroughfare Plan to (1) delete Manana Drive from Luna Road to Spangler Road and (2) add Ryan Road from Luna Road to Spangler Road as a four-lane undivided roadway (S-4-U) within 60 feet of right-of-way and 44 feet of pavement, and at the close of the hearing, authorize an ordinance implementing the change - Financing: No cost consideration to the City (TRN)
  - F. File ID 18-444: Authorize an increase in the construction services contract with Archer Western Construction, LLC for additional work associated with Grit Removal Improvements at Southside Wastewater Treatment Plant - Not to exceed \$248,021.56, from \$14,893,000.00 to \$15,141,021.56 - Financing: Water Utilities Capital Improvement Funds (DWU)
  - G. File ID 18-487: Authorize Supplemental Agreement No. 2 to the professional services contract with CDM Smith, Inc. to provide additional engineering services for major rehabilitation of the ozone systems at the Bachman, East Side, and Elm Fork Water Treatment Plants - Not to exceed \$5,975,197.00, from \$288,380.00 to \$6,263,577.00 - Financing: Water Utilities Capital Construction Funds (DWU)
  - H. File ID 18-505: Authorize acquisition from Juan I. Zaragoza, of approximately 18,750 square feet of land located on Kildare Avenue near its intersection with Kingsley Drive for the Kildare 4927 Voluntary Purchase Program - Not to exceed \$73,000.00 (\$70,000.00, plus closing costs and title expenses not to exceed \$3,000.00) - Financing: 2012 Bond Funds (TWM)
  - I. File ID 18-571: Authorize (1) a contract for the construction of the Security Controls Enhancement Project at Dallas Love Field - Construction Rent-A-Fence, Inc. lowest responsive bidder of three; and (2) an increase in appropriations in an amount not to exceed \$3,263,600.00 in the Aviation Capital Construction Fund - Not to exceed \$4,263,600.00 - Financing: Aviation Capital Construction Funds (AVI)
  - J. File ID 18-572: Authorize Supplemental Agreement No. 4 to the professional services contract with M. Arthur Gensler Jr. & Associates, Inc. to provide architectural and engineering design for Garages A and B Fire Alarm System Replacement Project at Dallas Love Field - Not to exceed \$270,654.00, from \$816,798.00 to \$1,087,452.00 - Financing: Aviation Current Funds (AVI)
  - K. File ID 18-580: Authorize the first three-year renewal option to the Distributed Antenna System (DAS) and wireless fidelity system (Wi-Fi) Network contract with Concourse Communications Group, LLC and amend the contract to (1) reduce current contract revenue share to 20% for the DAS and Wi-Fi System Network; (2) reduce the Minimum Annual Guarantee from \$300,000.00 to \$225,000.00; (3) convert the airport Wi-Fi model from paid to free; and (4) extend the contract from August 22, 2012 to April 15, 2025 - Estimated Revenue Foregone: \$845,000.00 over six-year period (AVI)

Adjourn



Lee M. Kleinman, Chair  
Mobility Solutions, Infrastructure and Sustainability Committee



### EXECUTIVE SESSION NOTICE

A closed executive session may be held if the discussion of any of the above agenda items concerns one of the following:

1. seeking the advice of its attorney about pending or contemplated litigation, settlement offers, or any matter in which the duty of the attorney to the City Council under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Texas Open Meetings Act. [Tex. Govt. Code §551.071]
2. deliberating the purchase, exchange, lease, or value of real property if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.072]
3. deliberating a negotiated contract for a prospective gift or donation to the city if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.073]
4. deliberating the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee unless the officer or employee who is the subject of the deliberation or hearing requests a public hearing. [Tex. Govt. Code §551.074]
5. deliberating the deployment, or specific occasions for implementation, of security personnel or devices. [Tex. Govt. Code §551.076]
6. discussing or deliberating commercial or financial information that the city has received from a business prospect that the city seeks to have locate, stay or expand in or near the city and with which the city is conducting economic development negotiations; or deliberating the offer of a financial or other incentive to a business prospect. [Tex Govt. Code §551.087]
7. deliberating security assessments or deployments relating to information resources technology, network security information, or the deployment or specific occasions for implementations of security personnel, critical infrastructure, or security devices. [Tex. Govt. Code §551.089]

### HANDGUN PROHIBITION NOTICE FOR MEETING OF GOVERNMENTAL ENTITIES

"Pursuant to Section 30.06, Penal Code (trespass by license holder with a concealed handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a concealed handgun."

*"De acuerdo con la sección 30.06 del código penal (ingreso sin autorización de un titular de una licencia con una pistola oculta), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola oculta."*

"Pursuant to Section 30.07, Penal Code (trespass by license holder with an openly carried handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a handgun that is carried openly."

*"De acuerdo con la sección 30.07 del código penal (ingreso sin autorización de un titular de una licencia con una pistola a la vista), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola a la vista."*

# Mobility Solutions, Infrastructure & Sustainability Committee

## Meeting Record

The Mobility Solutions, Infrastructure & Sustainability Committee meetings are recorded. Agenda materials are available online at [www.dallascityhall.com](http://www.dallascityhall.com). Recordings may be reviewed/copied by contacting the Mobility Solutions, Infrastructure & Sustainability Committee Coordinator at 214-671-9465.

**Meeting Date:** June 25, 2018

**Convened:** 2:05 p.m.

**Adjourned:** 2:37 p.m.

**Committee Members Present:**

Lee M. Kleinman, Chair  
Rickey D. Callahan, Vice Chair  
Tennell Atkins  
Sandy Greyson  
Adam Medrano  
Casey Thomas, II

**Committee Members Absent:**

N/A

**Other Council Members Present:**

N/A

**Presenters:**

Majed Al-Ghafry, Assistant City Manager  
Rick Galceran, Director, Office of the Bond Program

**City Staff Present:**

Sarah Standifer, Trinity Watershed Management  
Christopher O'Brien, Office of the Bond Program  
Obeng Opoku-Acheampong, City Attorney's Office  
Ashley Eubanks, Sustainable Development and Construction  
Matt Penk, Dallas Water Utilities  
Neva Dean, Sustainable Development and Construction  
Marc Cottingham, Dallas Water Utilities

Terry Lowery, Dallas Water Utilities  
Adriana Castaneda, Office of the Bond Program  
Steve Cherryholmes, Department of Transportation  
Robert Perez, Public Works  
Mark Duebner, Department of Aviation  
Erick Thompson, Equipment & Building Services  
Vincent Lewis, Office of the Bond Program

## AGENDA

Call to Order (2:05 p.m.)

**1. Approval of the June 11, 2018 Meeting Minutes**

**Presenter(s):** Lee M. Kleinman, Chair

**Action Taken/Committee Recommendation(s):** A motion was made to approve the minutes for the June 11, 2018 Mobility Solutions, Infrastructure & Sustainability Committee meeting.

Motion made by: Adam Medrano  
Item passed unanimously: X  
Item failed unanimously:

Motion seconded by: Sandy Greyson  
Item passed on a divided vote:  
Item failed on a divided vote:

**2. Bond Program Project Management**

**Presenter(s):** Rick Galceran, Director, Office of the Bond Program

**Action Taken/Committee Recommendation(s):** Information only.

**3. Interagency Transportation Report**

**Presenter(s):** Lee M. Kleinman, Chair

**Action Taken/Committee Recommendation(s):** CM Greyson shared that the date of the DART Board vote on the Cotton Belt service level amendment has been postponed. Information only.

**4. Upcoming Agenda Items**

**Presenter(s):** Lee M. Kleinman, Chair

**Action Taken/Committee Recommendation(s):** A motion was made to move all agenda items forward to the full City Council for consideration.

Motion made by: Sandy Greyson

Item passed unanimously: X

Item failed unanimously:

Motion seconded by: Casey Thomas

Item passed on a divided vote:

Item failed on a divided vote:

Adjourn (2:37 p.m.)

**APPROVED BY:**

**ATTESTED BY:**

Lee M. Kleinman, Chair  
Mobility Solutions, Infrastructure, &  
Sustainability Committee

Kate Bower, Coordinator  
Mobility Solutions, Infrastructure, &  
Sustainability Committee

# Memorandum



DATE August 10, 2018

CITY OF DALLAS

TO Honorable Members of the Mobility Solutions, Infrastructure and Sustainability Committee

SUBJECT **Autonomous Delivery Vehicles**

On Monday, August 13, 2018, you will be briefed on Autonomous Delivery Vehicles and staff's suggested pilot program. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in blue ink, appearing to read 'M. Al-Ghafry', with a large, sweeping initial 'M' and 'A'.

**Majed A. Al-Ghafry**  
Assistant City Manager

[Attachment]

c: Honorable Mayor and Members of the City Council  
T.C. Broadnax, City Manager  
Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Billieae Johnson, City Secretary  
Daniel F. Solis, Administrative Judge  
Kimberly Bizar Tolbert, Chief of Staff to the City Manager

Jon Fortune, Assistant City Manager  
Joey Zapata, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

# Autonomous Delivery Vehicles

**Mobility Solutions, Infrastructure  
and Sustainability Committee**  
**August 13, 2018**

**Michael Rogers, Director**  
**Department of Transportation**



# Presentation Overview

- Definition
- Background/History and Technology
- Purpose: Autonomous Delivery Devices Pilot
- Issues/ Operational or Business Concerns
- Operational Impact
- Proposed Action
- Next Steps

# Definition

An “Autonomous Delivery Device” is an electronically powered, autonomous vehicle.



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# Background/History

- Autonomous Delivery Devices (ADD) are being explored as alternative delivery methods for property, goods and food instead of traditional, gas powered vehicles



# Description

An “Autonomous Delivery Device” is:

- Primarily used for transporting property and related services
- No more than 26 inches wide (similar to wheelchair specifications)
- Operates at a max speed of 10 mph

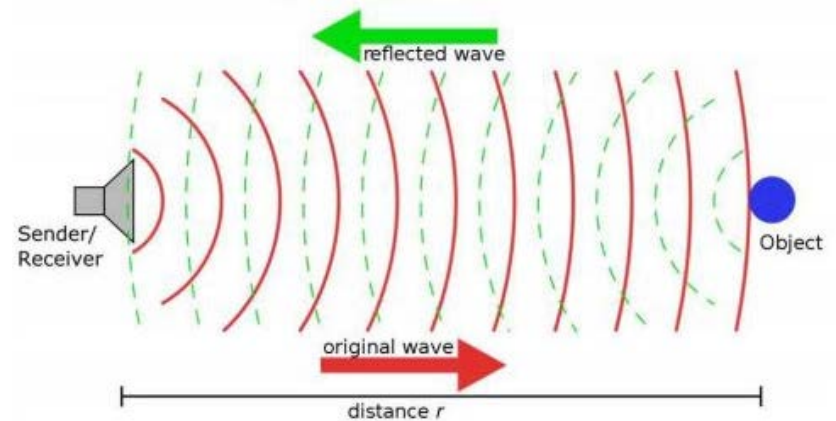
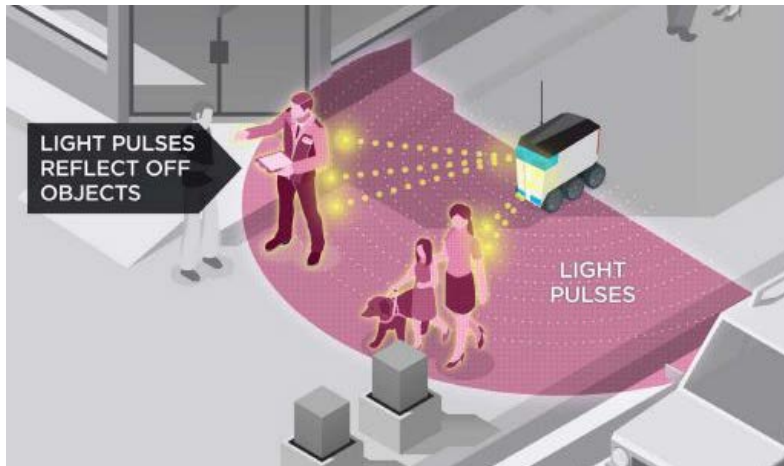


<https://www.youtube.com/watch?v=9gfgD98iCDM&feature=youtu.be>

© 2018 Marble : <https://www.marble.io/>

# ADD Technology

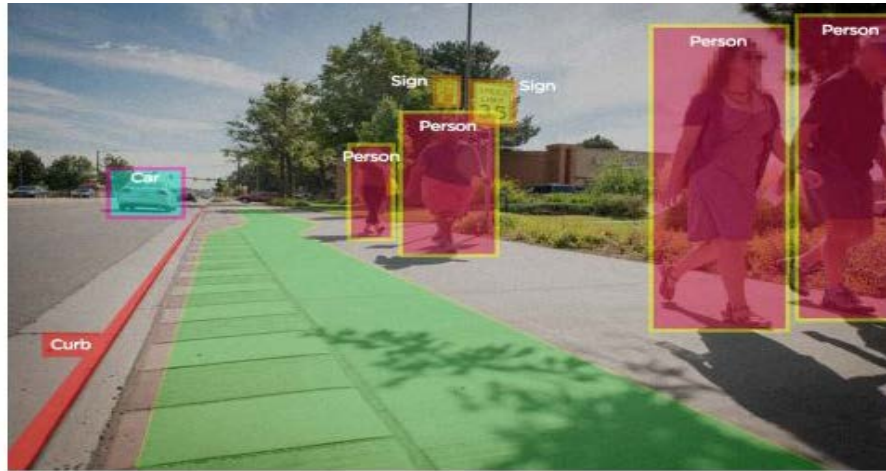
- Sensors allow robots to process a picture of the environment in order to navigate a safe path.
- Lidar detects how far away the ADD is from objects around it.



Source: Public Commons.

# ADD Technology

- Sensors allow robots to process a picture of the environment in order to navigate a safe path.
- Cameras detect and identify objects in its path.



Source: OIG.

# Operational Benefit

- ADD reduces the number of delivery vehicles on streets.
  - *Environmental Impact:* ADDs are estimated to reduce annual pollutant emissions by approximately 4,311 metric tons of CO2 per year.
  - *Reduces congestion:* Minimizes on-street lanes from Delivery Vehicles parked idling in roadway and bicycle lanes.

# Operational Service

- Reduce delivery costs for businesses
- ADDs will utilize City of Dallas owned sidewalks
- ADDs have mapping software which produces 3D maps of sidewalks in the City which are useful for both mobility and ADA planning

# Autonomous Delivery Device Pilot

- The ADD pilot in Dallas will be used to assess the utility and effectiveness of a delivery solution.
- ADD Parameters:
  - Limited number of devices
  - Human operator walking behind device
  - Set delivery routes

# U.S. Cities Conducting Pilots

- San Francisco, CA
- Washington, DC
- Austin, TX
- Redwood City, CA
- Arlington, TX
- Concord, CA

## International Examples

- Australia
- Switzerland
- Germany
- Portugal
- Estonia

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# Other City's Regulations at the Local

Locality	Date Enacted	Testing-only Restriction	Speed Limit (mph)	Weight Limit (lbs)	Details
Redwood City, CA <sup>148</sup>	11/13/2016	Yes	10	80	Requires commercial general liability insurance (\$4,000,000), bodily/personal injury insurance (\$2,000,000), property damage liability insurance (\$1,000,000 per accident), plus automobile and workers comp insurance.
Washington, DC (Current) <sup>149</sup>	10/8/2016	Yes	10	50	In case of technology failure, robot must be retrieved by owner within 24 hours.
Washington, DC <sup>150</sup>	(Proposed)	No	10	90	\$1,000,000 public liability and property damage insurance required; \$1,000 permit fee per applicant.
Austin, TX <sup>151</sup>	8/10/2017	Yes	10	300	\$1,000,000 general liability insurance.
Concord, CA <sup>152</sup>	10/3/2017	Yes	10	500	\$4,000,000 bodily injury, personal injury, and property damage insurance \$1,000,000 automobile liability required.  This was specifically a pilot run by the company Marble. Starship also has a pilot (approved in July 2017).
San Francisco, CA <sup>153</sup>	12/5/2017	Yes	3	None	General, automotive, and workman's comp insurance (unspecified amounts);  No more than 3 robots per permit holder. Human operator must be within 30 ft.

Source: RARC Report, April 9, 2018

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# Regulations at the State Level

State	Date Enacted	Speed Limit (mph)	Weight Limit (lbs)	Details
Virginia <sup>154</sup>	2/24/2017	10	50	Municipalities can prohibit but not further regulate delivery robots.
Idaho <sup>155</sup>	3/24/2017	10	80	Municipalities may adopt further regulations for the safe operation of delivery robots on sidewalks.
Florida <sup>156</sup>	6/23/2017	10	80	Municipalities may adopt further regulations for the safe operation of delivery robots on sidewalks; \$100,000 commercial general liability insurance requirement.
Wisconsin <sup>157</sup>	6/21/2017	10	80	Municipalities can prohibit but not further regulate delivery robots.
Ohio <sup>158</sup>	6/30/2017 (effective 9/29/2017)	10	90	Municipalities may enact additional regulations that apply to the operation of delivery robots; \$100,000 general liability insurance requirement.

Source: RARC Report, April 9, 2018

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# Proposed Pilot: Rules and Regulations

- Operate on sidewalks, crosswalks and pedestrian walkways approved by the city of Dallas. They will not operate on trails.
- Obey all traffic control devices, signs, markings and restrictions established by the Director of Transportation.

# Proposed Pilot: Rules and Regulations

- Operated in a manner that does not endanger pedestrians, bicyclists and other users of the public space.
- ADDs will yield to pedestrians using personal assistive mobility devices, skates, skateboards, and bicyclists.
- System will alert operator to critical technology failures or degraded performance.

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# Proposed Pilot: Rules and Regulations

- ADDs will NOT operate on public roadways, state or county highways. They will only operate on sidewalks.
- ADDs will have identification including the operating companies website address and contact information for public information purposes.

# Proposed Application Process

- Set operating dates
- Map of operation area
- Proof of liability insurance deemed appropriate by the City of Dallas
- Set fee structure for permit
- Possible permit fee: \$808

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# Staff Recommendation

- Staff recommends the Mobility Solutions, Infrastructure and Sustainability Committee forward the Autonomous Delivery Device Pilot Program to City Council for consideration and possible approval.

# Next Steps (Tentative Based on MSIS Briefing)

- Timeline Implementation:
  - August 13 – MSIS Committee Briefing
  - August 29 – Council Briefing
  - October 24 – Agenda Item
  - November 1 – Deployment



# Autonomous Delivery Vehicles

**Mobility Solutions, Infrastructure  
and Sustainability Committee**  
**August 13, 2018**

**Michael Rogers, Director**  
**Department of Transportation**



# Memorandum



DATE August 10, 2018

CITY OF DALLAS

TO Honorable Members of the Mobility Solutions, Infrastructure and Sustainability Committee

SUBJECT **Dallas Love Field Master Plan Update**

On Monday, August 13, 2018, you will be briefed on updates to the Dallas Love Field Master Plan. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in blue ink, appearing to read 'M. Al-Ghafry', with a large, sweeping loop at the end.

**Majed A. Al-Ghafry**  
Assistant City Manager

[Attachment]

c: Honorable Mayor and Members of the City Council  
T.C. Broadnax, City Manager  
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Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

# **Dallas Love Field Master Plan Update**

**Mobility Solutions,  
Infrastructure &  
Sustainability**

**August 13, 2018**

**Mark Duebner  
Director of Aviation**



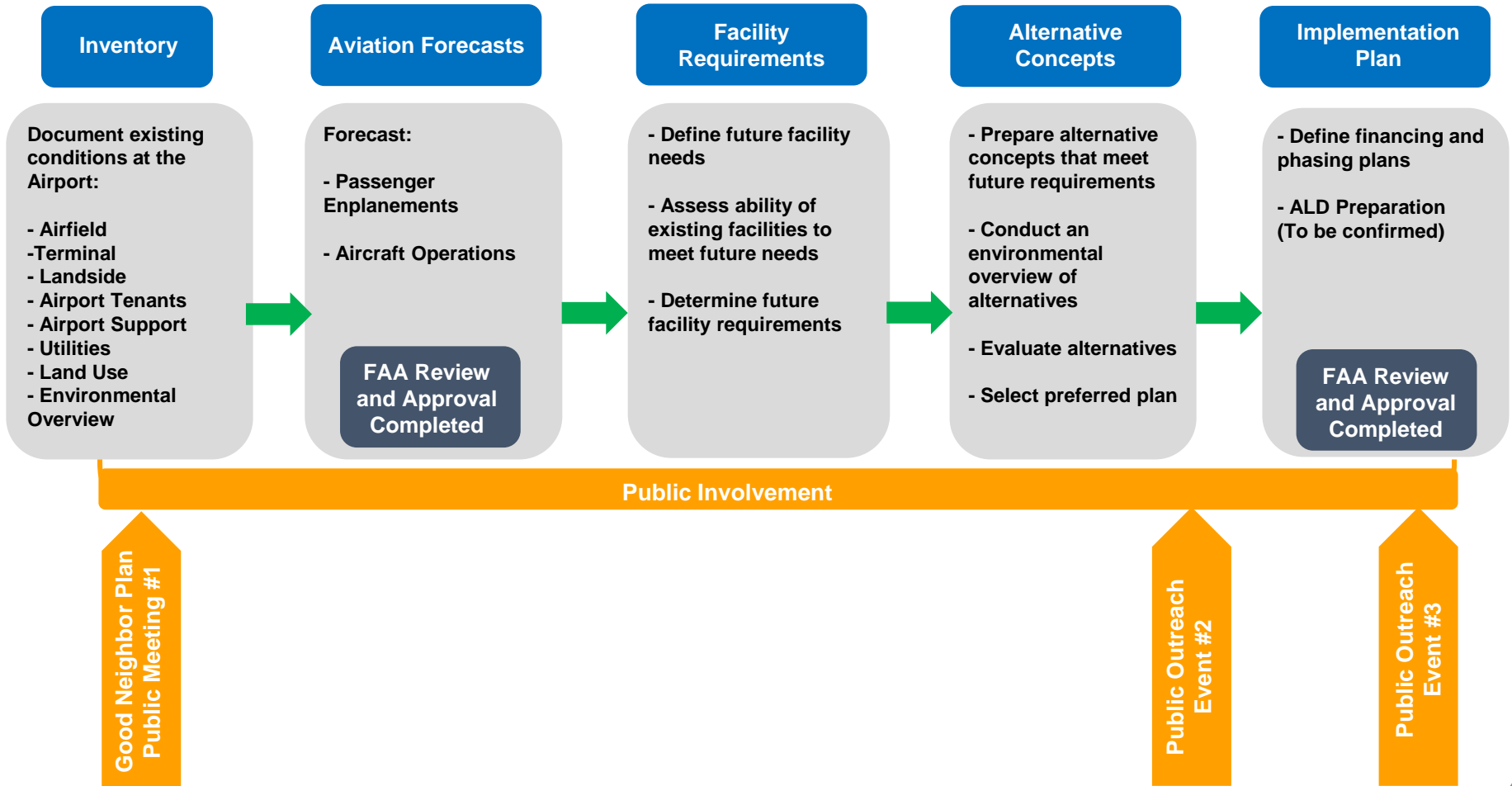
# Overview

- Gain approval of the Dallas Love Field (DAL) Master Plan Update
- Discuss work-to-date on North Entry Concept

# Master Plan Update Objective

- Previous Master Plan was completed and approved in 2001
- The primary objective of the DAL Airport Master Plan Update is to define a strategic development program for the Airport that will:
  - Efficiently and safely accommodate future aviation demand over the 20-year planning horizon
  - Be responsive to the needs of the communities served by the Airport
  - Maximize revenue-generating opportunities while effectively managing land uses and development
  - Provide flexibility to respond to changes in the dynamic aviation industry
- The Master Plan Update evaluated the effect of the LFMP (2006-2014) and the Wright Amendment Repeal (October 2014)

# Master Plan Update Process



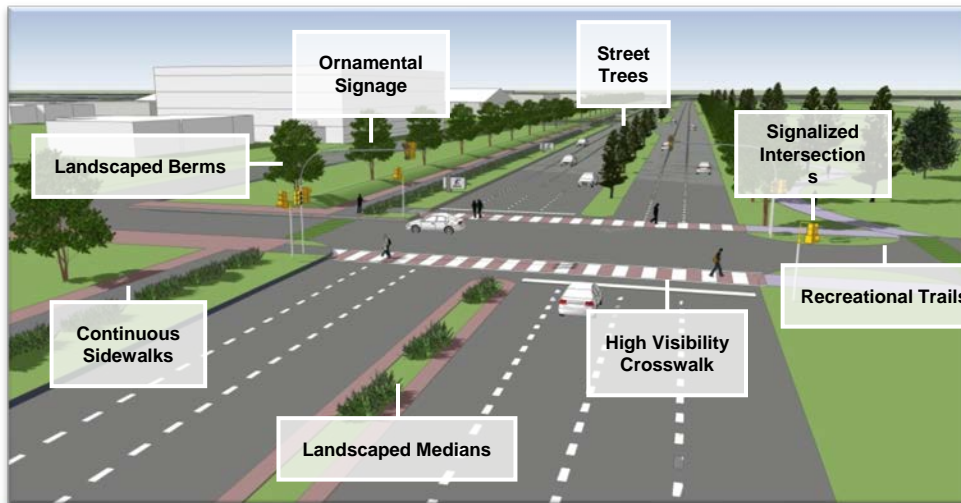
# Priorities from Good Neighbor Program Input

## Top Three Priorities:

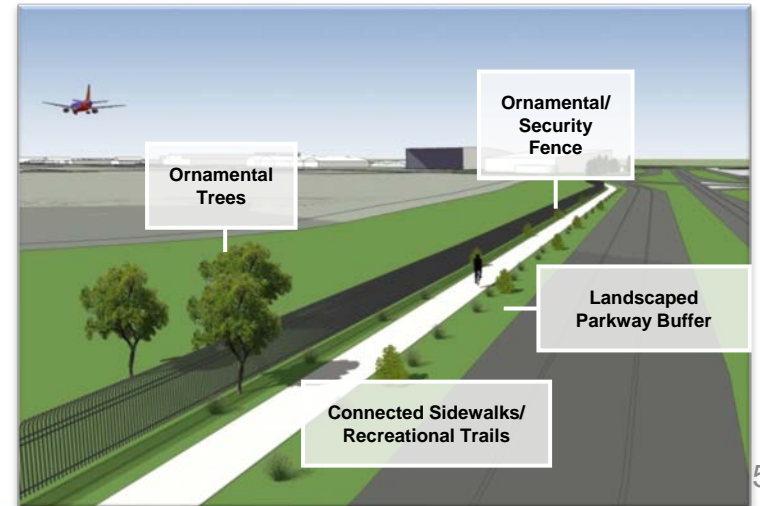
1. Pedestrian Connections
2. Landscaping
3. Buffers



## Lemmon Avenue and Lovers Lane



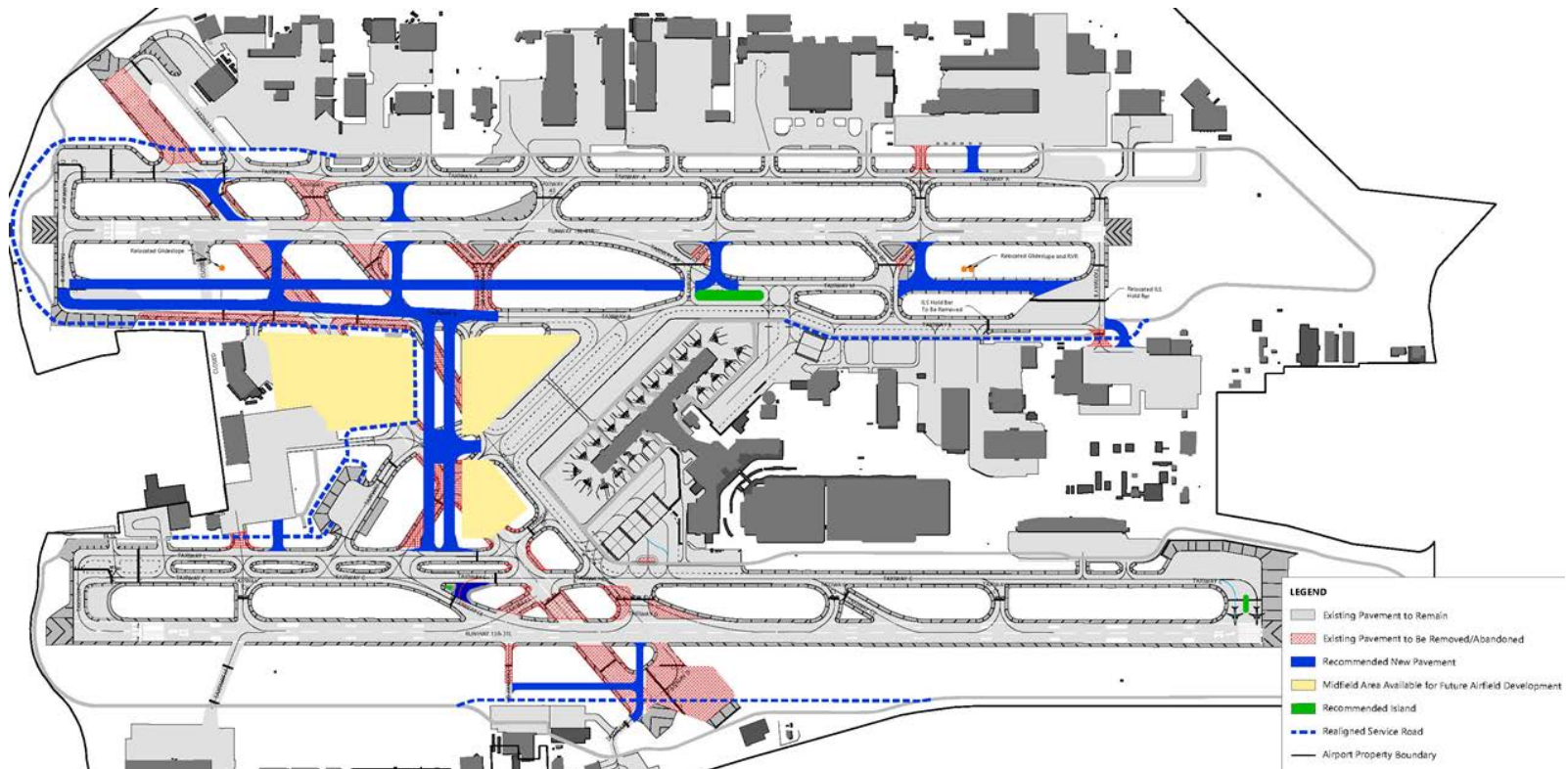
## Airdrome Drive





# 2015 FAA Approved Airfield Layout

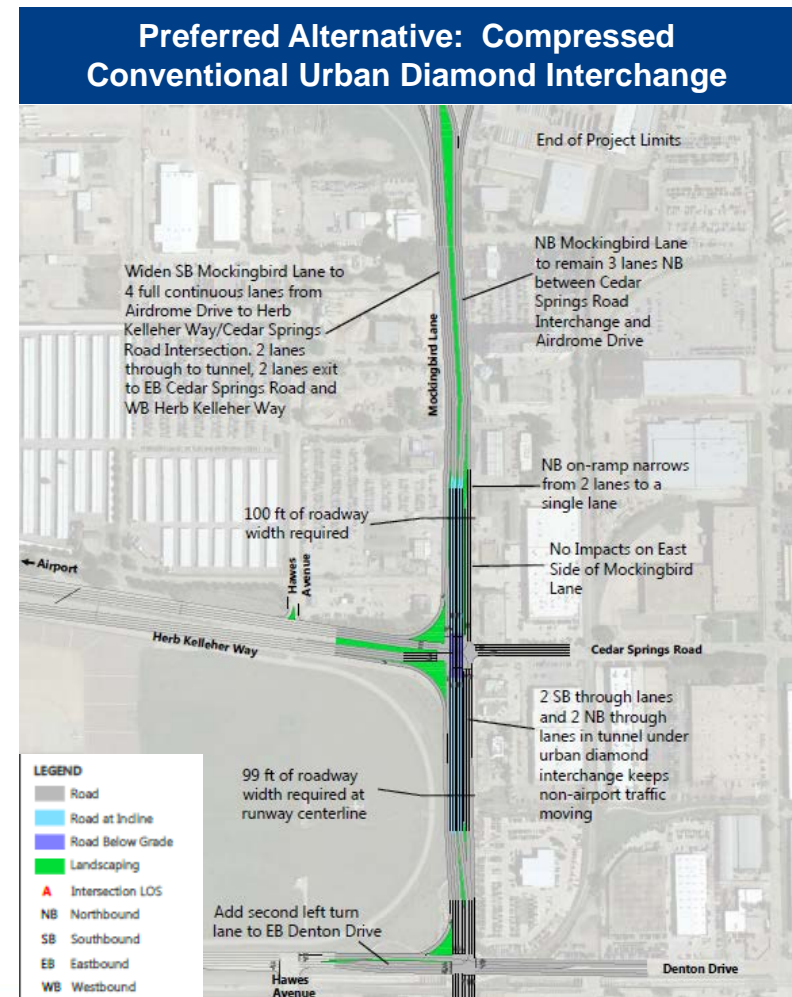
- FAA issued a Finding of No Significant Impact for the decommissioning of Runway 18-36
- Current runway system is adequate to meet future demand through the planning horizon (2032)
- Airfield alternatives focus on reconfiguration of the taxiway infrastructure to comply with current FAA design standards





# Preferred Alternative for Congestion Relief at DAL Entry Road

- Three intersection alternatives were developed to mitigate congestion at Herb Kelleher Way/Cedar Springs and Mockingbird Lane
  - Compressed Conventional Urban Diamond Interchange
  - Diverging Urban Diamond Interchange
  - Direct Ramp Interchange
- Preferred Alternative improves access while separating commuter and airport traffic



# Level of Service (LOS) on Adjacent Roadways with 8.2 Million Annual Enplanements (2019 +/-)

Intersection		LOS at 8.2 MAEP	
		a.m. Peak	p.m. Peak
1	Lemmon Avenue and Airdrome Drive	C	F
2	Lemmon Avenue and Mockingbird Lane	F	F
3	Mockingbird Lane and Airdrome Drive	B	C
4	Mockingbird Lane and Cedar Springs Road/ Herb Kelleher Way	F	F
5	Mockingbird Lane and Denton Drive	F	F



# North Entry Concept

- DAL North Entry provides a second option for airport access from arterials serving northern neighborhoods and linking to regional transportation corridors
- DAL safety and emergency management is improved with addition of second entry/exit
- Early plans indicate north entry can be achieved while maintaining safe airfield operations
- Project will require grade separation (elevated cross-over) of north entry road to existing in-bound Herb Kelleher Way and Megredy Circle

# Vehicle Miles Traveled (VMT) / Emissions

- A North Entry would reduce VMT and emissions

**Reduction of approximately  
4-5% in passenger VMTs  
Compared to the Baseline Scenario**

**Reduction of approximately  
1,400 to 1,700 tons of greenhouse gases (CO<sub>2</sub>e)  
compared to the Baseline Scenario**

# North Entry as a Second Airport Access

- Passenger surveys conducted 2/27/17-3/2/17
- Probability to Enter Dallas Love Field via North Entry = **45%**

## Passenger Survey Results

Zones	# of Trips	Likelihood of Using North Access	# of North Entry Trips
North	327	100%	327
East	393	50%	196
West	97	50%	49
South	468	0%	0
<b>TOTAL</b>	<b>1,285</b>		<b>572 (45%)</b>

Completed Passenger Surveys – 1,200

Usable Passenger Survey – 1,089

Departing Passengers/Day – 7,020

Sample Size – 15.2%

Margin of Error at 95% Confidence Level  $\pm 3\%$

Source: Passenger Surveys conducted February 27-March 2, 2017, Ricondo & Associates, Inc., July 2017

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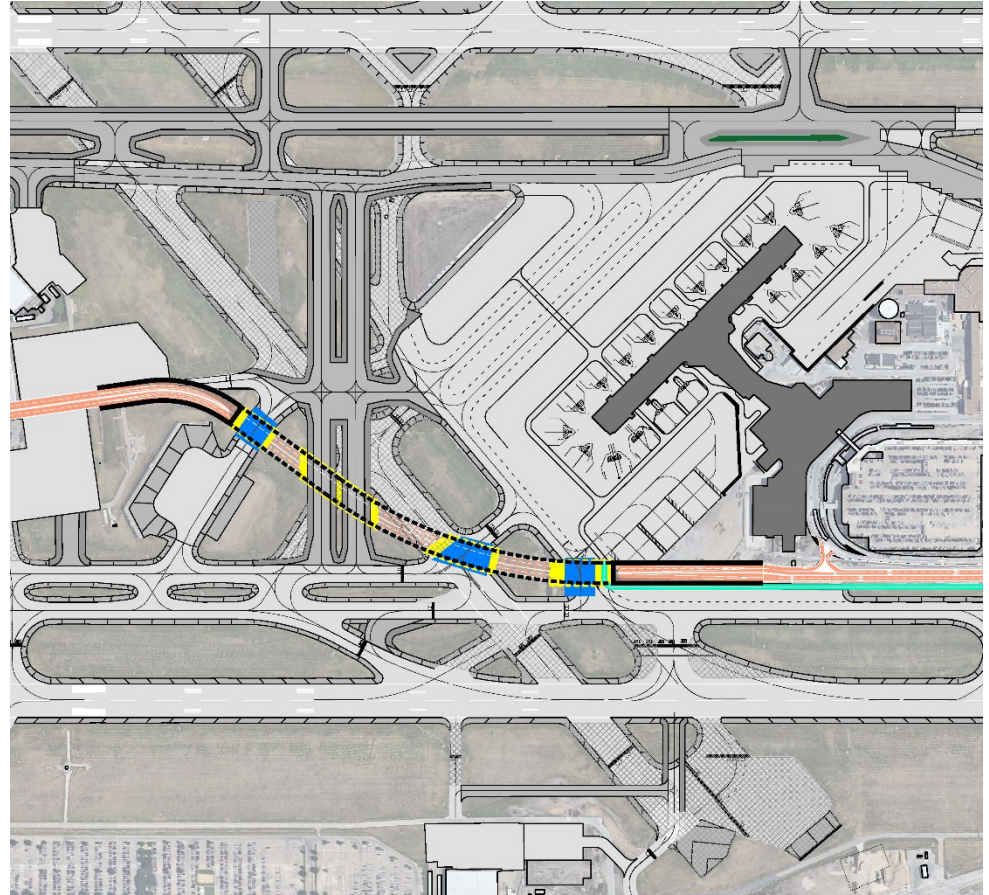
# Safety and Emergency Management

- Existing single road access increases Airport's vulnerability during emergencies
- In an event that compromises access to Herb Kelleher Way, emergency response and evacuation of terminal area are challenging
- Second roadway access relieves current congestion at over-capacity intersection (Herb Kelleher Way and Mockingbird Lane) and offers a "back door" if future intersection changes close Herb Kelleher Way and/or Mockingbird Lane



# Preliminary Model Route to Terminal

- Supports FAA-approved Airfield Layout
- Allows airfield operations to continue during phased construction
- Maintains future development options



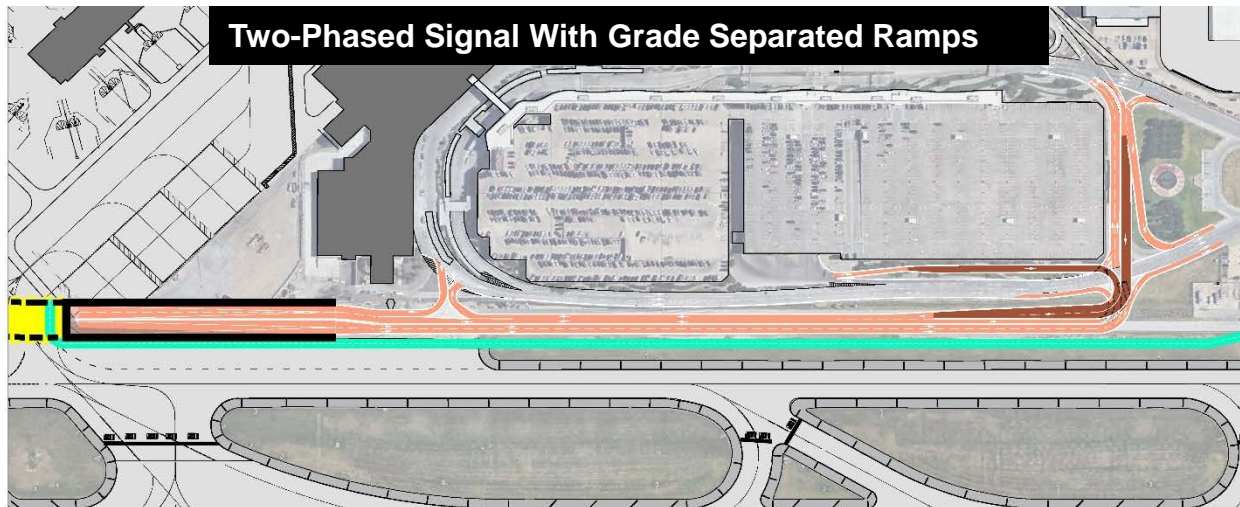
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# Integration with Existing Terminal Area Roadways (Grade-Separation)

- Level of Service(LOS) and safety impacts limited possible at-grade solutions
- Grade separation option was developed to improve safety, maintain LOS and provide a connection to existing roadway system

## LEGEND

- Proposed Roadway Improvement
- Proposed Elevated Roadway
- Proposed VSR Road Re-alignment
- Proposed Tunnel Cover
- Proposed Tunnel Approach
- Proposed Tunnel Roadway



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Source: Google Earth Pro, May 2017; Love Field Master Plan Update, May 2015; Ricondo & Associates, Inc., May 2017



# Next Steps

- Committee approval of Master Plan Update
- Committee approval to continue planning study on North Entry Concept
  - Baseline traffic data will be updated with additional transportation surveys and counts
  - Traffic models will be assessed for positive or negative impacts, including Northwest Highway; secondary neighborhood streets; and possible mitigation for north neighborhoods
  - Develop major planning elements of project, including connection to Shorecrest Drive or Northwest Highway; alignment of route with airfield layout; and connections to terminal area roadways
  - Schedule Good Neighbor Program events for outreach and public input
  - Provide periodic Committee briefings

A draft of the Master Plan Update can be found online through the Dallas Love Field Airport website link below:

[DRAFT Master Plan Update](#)

# **Dallas Love Field Master Plan Update**

**Mobility Solutions,  
Infrastructure &  
Sustainability**

**August 13, 2018**

**Mark Duebner  
Director of Aviation**



# Memorandum



CITY OF DALLAS

DATE August 10, 2018

TO Honorable Members of the Mobility Solutions, Infrastructure & Sustainability Committee

SUBJECT **Margaret McDermott Bridge Status Update**

This memorandum provides an update on the status of the Margaret McDermott (IH30) Bridge project. The City has been working with TxDOT, the Engineer of Record and their third-party engineering forensic firm towards a path forward to complete the bridge construction and safely open it to pedestrian and bicycle use. The Engineer of Record provided the City and TxDOT with drawings for two design alternatives in late July that *may* resolve the vibration and fatigue issues associated with the cable anchorage system. The City has requested that TxDOT obtain pricing from their Contractor associated with implementing these alternatives.

As Staff has been working through the summer to gain greater clarity and a proposed path forward, the information provided by the Engineer of Record indicates that the cable anchorage system has failed to perform as originally designed and intended for long-term maintenance; the remedies to date including additional dampners have failed to address the vibrations, and prior vibrations have subjected some of the elements to premature fatigue. Attached you will find a photo diagram showing the bridge assemblage (Exhibit A), and plan view of the locations of the cable subsystem failures with areas of concern (Exhibit B) as prepared by the Engineer of Record. In the March to April 2016 timeframe, during bridge construction, the anchor rod on the lower cable assemblage assembly fractured on two different cables on the East Bound Bridge.

As Staff understands it, the bridge is not anticipated to fall down, or become unstable in the event that a cable breaks. The Engineer of Record has explained that *"If any one cable anchorage were to fracture, it would not have a detrimental effect on the bridge structural stability. A cable loss analysis was included in the original design."*

The Engineer of Record has as provided information that explains that *"Because the anchor rods have been exposed to potential fatigue damage that is not quantifiable, it is not possible to assess if / when a particular cable anchor rod may fail. In its currently constructed bridge configuration including the cable dampers, it is estimated the probability of failure for EB-C-E2-S (recent instrumented cable) is approximately 23 percent over the 40-year design service life. For cables with similar properties and behavior to EB-C-E2-S, 1 out of 4 cables is likely to experience a fatigue failure within 40-years. As a further comparison, literature and design codes typically restrict the acceptable probability of a component over its service life to 2 percent for fatigue limit states. For Cable EB-C-E2-S, a probability of failure of 2 percent is reached after the cable reaches a service life of approximately 2 years."* In plain language, there are concerns that the cable vibrations may

DATE August 13, 2018  
SUBJECT Margaret McDermott Bridge Status Update

be reducing the design life of the cables and anchor rods, so that they have to be replaced every two-to-five years, rather than every 40 years as is typical for most bridge structures.

The Engineer of Record has indicated: *“Fracture of an anchor rod would be classified as a “brittle failure” which means there is no appreciable plastic deformation prior to fracture. These types of failures typically occur without any prior evidence of a potential break, thus they are characterized by rapid crack propagation without significant plastic deformation.* In plain language, this means there are no visual or other indications of pending cable anchor failure, so this could happen without warning.

As Staff understands it, there is a potential for the anchor rod that holds the cable to the bridge to break. If that happens, the loose cable could swing into the pedestrian path. As stated by the Engineer of Record, *“If the anchor rod were to fracture, the cable will travel along its axis in the direction of applied tension if unrestrained. Since the cables are inclined from the deck level connection to the arch connection, a fractured cable would initially travel upward and inward over the bridge walkway / bike path area. This is a sudden dynamic response that is dependent on the cable length and applied tension. As the energy is dissipated, the cable will swing back and forth / up and down until ultimately resting vertically under its arch connection, i.e. will be hanging vertically within walkway / bike path area roughly 3 to 5 feet above the deck surface”.* This simply means that a cable has the potential to swing into pedestrian and bicyclists paths.

The City has also requested alternative implementation plans from the Engineer of Record to facilitate partial opening of the bridge, while the testing, cable anchor fabrication and installation are being performed. We anticipate receipt of this information within five weeks. Upon receipt, Staff will provide this information, along with a recommendation to City Council for their consideration.

Additionally, Staff have consulted periodically with the City Attorney's Office to advise on the appropriate next steps from the City's perspective and as recently as last week. Staff is also working to identify an independent third party forensic structural engineering expert in advance of follow up meetings that will need to be held.

Please let me know if you have any questions.



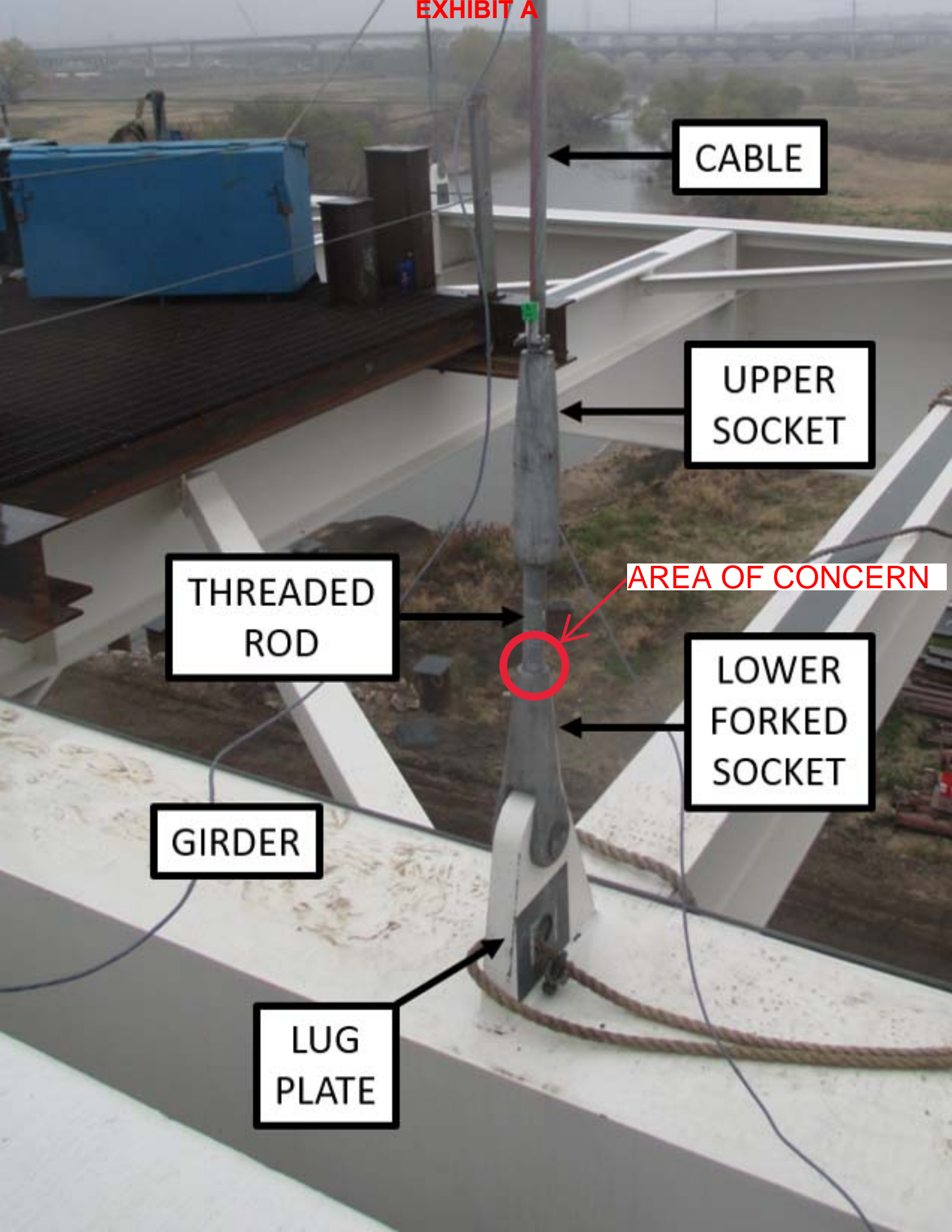
Sarah Standifer  
Director, Trinity Watershed Management

[Attachments]

DATE       **August 13, 2018**  
SUBJECT     **Margaret McDermott Bridge Status Update**

c:     Honorable Mayor and Members of the City Council  
      T.C. Broadnax, City Manager  
      Larry Casto, City Attorney  
      Craig D. Kinton, City Auditor  
      Billerae Johnson, City Secretary  
      Preston Robinson, Administrative Judge  
      Kimberly Bizar Tolbert, Chief of Staff to the City Manager  
      Majed A. Al-Ghafry, Assistant City Manager

      Jon Fortune, Assistant City Manager  
      Joey Zapata, Assistant City Manager  
      M. Elizabeth Reich, Chief Financial Officer  
      Nadia Chandler Hardy, Chief of Community Services  
      Raquel Favela, Chief of Economic Development & Neighborhood Services  
      Theresa O'Donnell, Chief of Resilience  
      Directors and Assistant Directors



CABLE

UPPER  
SOCKET

THREADED  
ROD

AREA OF CONCERN

LOWER  
FORKED  
SOCKET

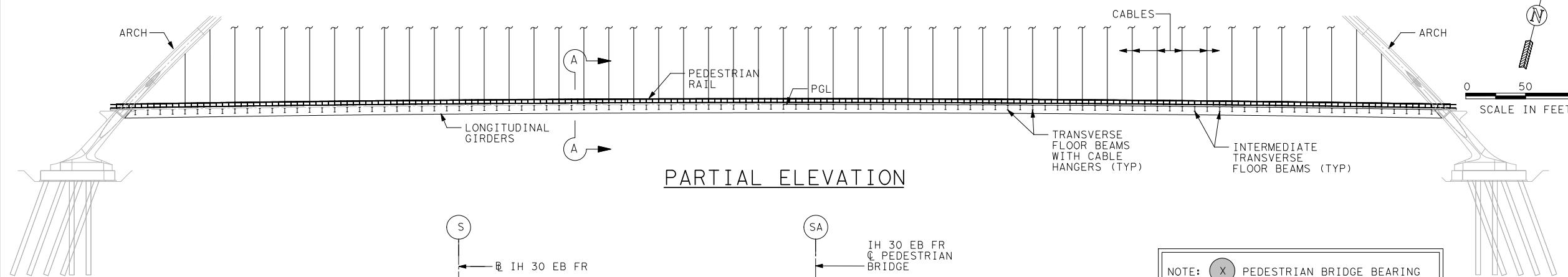
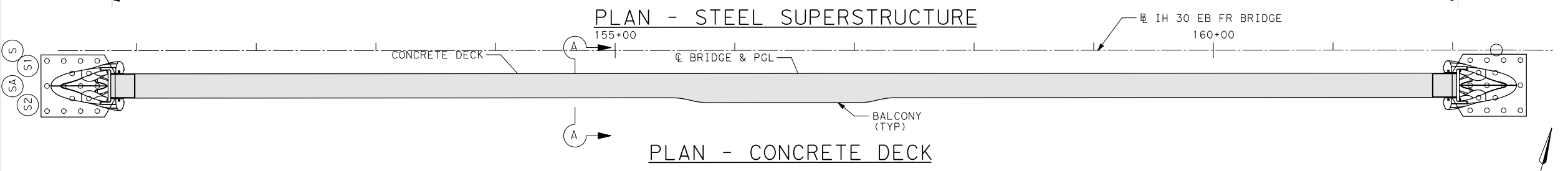
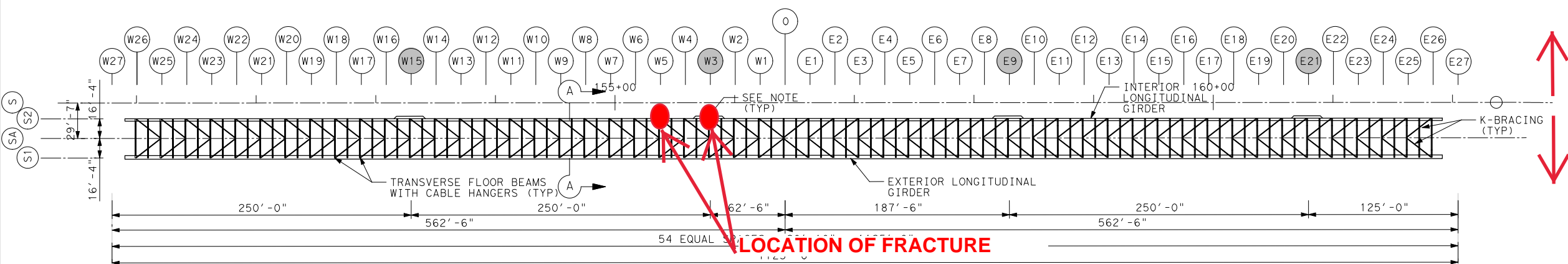
GIRDER

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PLATE



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PROFILE GRADE LINE ELEVATIONS			
EB Frontage Road / Pedestrian Bridges			

INTERSTATE 30			
W25	151+20.02	449.73	449.14

TRINITY RIVER FLOODPLAIN			
W20	152+24.18	451.19	450.60

W19	152+45.02	451.45	450.86
W18	152+65.85	451.69	451.10
W17	152+86.68	451.91	451.32
W16	153+07.52	452.13	451.54
W15	153+28.35	452.33	451.74
W14	153+49.18	452.52	451.93
W13	153+70.02	452.69	452.10
W12	153+90.85	452.86	452.26
W11	154+11.68	453.00	452.41
W10	154+32.52	453.14	452.55
W9	154+53.35	453.26	452.67
W8	154+74.18	453.37	452.78
W7	154+95.02	453.47	452.88
W6	155+15.85	453.56	452.96
W5	155+36.68	453.63	453.04
W4	155+57.52	453.69	453.09
W3	155+78.35	453.73	453.14
W2	155+99.18	453.76	453.17
W1	156+20.02	453.78	453.19
0	156+40.85	453.79	453.20
E1	156+61.68	453.78	453.19
E2	156+82.52	453.76	453.17
E3	157+03.35	453.73	453.14
E4	157+24.18	453.69	453.09
E5	157+45.02	453.63	453.04
E6	157+65.85	453.56	452.96
E7	157+86.68	453.47	452.88
E8	158+07.52	453.37	452.78
E9	158+28.35	453.26	452.67
E10	158+49.18	453.14	452.55
E11	158+70.02	453.00	452.41
E12	158+90.85	452.86	452.26
E13	159+11.68	452.69	452.10
E14	159+32.52	452.52	451.93
E15	159+53.35	452.33	451.74
E16	159+74.18	452.13	451.54
E17	159+95.02	451.91	451.32
E18	160+15.85	451.69	451.10
E19	160+36.68	451.45	450.86
E20	160+57.52	451.19	450.60
E21	160+78.35	450.93	450.34
E22	160+99.18	450.65	450.06
E23	161+20.02	450.36	449.77
E24	161+40.85	450.05	449.46
E25	161+61.68	449.73	449.14
E26	161+82.52	449.40	448.81
E27	162+03.35	449.06	448.47

# LEGEND

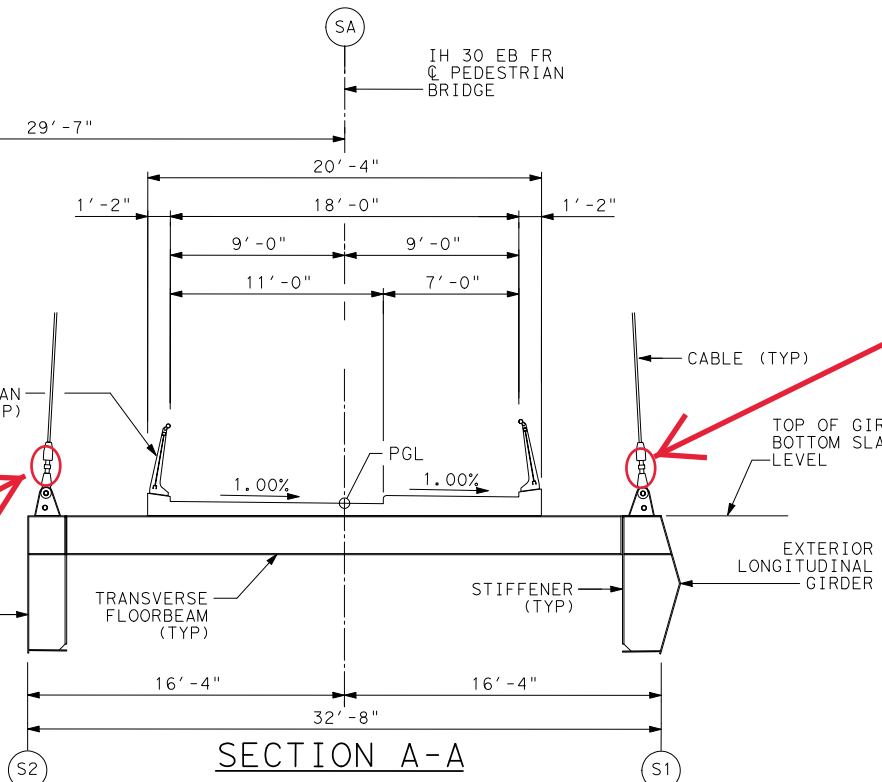
- LOCATION OF FRACTURE
- AREA OF CONCERN

NOTE: (X) PEDESTRIAN BRIDGE BEARING CONNECTION INTERFACE WITH IH 30 EB FRONTAGE BRIDGE AT BENTS No. 13-16

**RELEASED FOR CONSTRUCTION**  
/ 13, 2013  
Pegasus Link Constructors

AREA OF CONCERN

AREA OF CONCERN



**SANTIAGO CALATRAVA**  
ARCHITECT & ENGINEER  
PARKRING 11 - 8002 ZURICH, SUISSE  
TEL: (+41)44 204 5000 FAX (+41)44 204 5002

**HUITT-ZOLIARS**  
1717 McKinney Avenue, Suite 1400  
Dallas, Texas 75202-1236  
FIRM REGISTRATION No. F-761

IH 30 GENERAL BRIDGE GEOMETRY						
EB FR PEDESTRIAN BRIDGE						
SCALE: 1" = 100'			SHEET 1 OF 4			
Designed: JCV	FED. RD. NO. 6	STATE TEXAS	FEDERAL AID PROJECT NO. SEE TITLE SHEET		HIGHWAY NO. IH 30	
Checked: CEQ	DIST. MTU	COUNTY DAL	CONTROL NO. 1068	SECTION NO. 04	JOB NO. 116	SHEET NO. 49



# Memorandum



CITY OF DALLAS

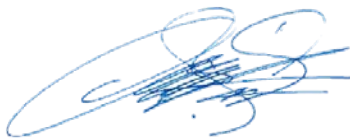
DATE August 10, 2018

TO Honorable Members of the Mobility Solutions, Infrastructure and Sustainability Committee

SUBJECT **Upcoming Agenda Items**

On Monday, August 13, 2018, you will consider whether to forward several agenda items forward to the full City Council for consideration. Due to the scheduling on the MSIS Committee, the agenda items are still in draft form at the time of this posting. The draft items are being included for your review, but please refer to the final items, which will be posted prior to the MSIS Committee, for consideration.

If you have any questions, please let me know.



Majed Al-Ghafry  
Assistant City Manager

[Attachment]

c: Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Billerae Johnson, City Secretary  
Preston Robinson, Administrative Judge  
Kimberly Bizar Tolbert, Chief of Staff to the City Manager  
Majed A. Al-Ghafry, Assistant City Manager  
Jon Fortune, Assistant City Manager

Joey Zapata, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability

**AGENDA DATE:** August 22, 2018

**COUNCIL DISTRICT(S):** 5

**DEPARTMENT:** Department of Public Works

**EXECUTIVE:** Majed Al-Ghafry

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**SUBJECT**

Authorize a contract for the construction of street paving, drainage, water and wastewater main improvements for Gardenvue Drive from Alto Garden Drive to Loma Garden Avenue - Tiseo Paving Company, lowest responsible bidder of seven - Not to exceed \$675,932.20 - Financing: Street and Transportation Improvement Funds (2012 Bond Funds) (\$562,113.00), Water Utilities Capital Improvement Funds (\$103,287.20) and Water Utilities Capital Construction Funds (\$10,532.00)

**BACKGROUND**

This item also impacts the Water Utilities Department. On May 27, 2015, City Council authorized a professional services contract with Dal-Tech Engineering, Inc. for the engineering design of one street petition project on Gardenvue Drive, from Alto Garden Drive to Loma Garden Avenue and one thoroughfare project on Highland Road, from Ferguson Road to Primrose at Highland by Resolution No. 15-0955.

On April 25, 2018, City Council authorized street paving, drainage, water and wastewater main improvements for Gardenvue Drive from Alto Garden Drive to Loma Garden Avenue; provided for partial payment of construction cost by assessment of abutting property owners; an estimate of the cost of the improvements to be prepared as required by law; and a benefit assessment hearing to be held on June 13, 2018 by Resolution No. 18-0602.

This action will authorize a contract with Tiseo Paving Company for the construction of street paving, drainage, water and wastewater main improvements for Gardenvue Drive from Alto Garden Drive to Loma Garden Avenue, in an amount not to exceed \$675,932.20.

The scope of the project on Gardenvue Drive from Alto Garden Drive to Loma Garden Avenue entails street paving, drainage, sidewalks, driveway approaches, barrier-free ramps, and water and wastewater main improvements.

Tiseo Paving Company has had 2 contractual activities with the City of Dallas for the past three years.

## **ESTIMATED SCHEDULE OF PROJECT**

Began Design	May 2015
Completed Design	February 2018
Begin Construction	November 2018
Complete Construction	November 2019

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On May 27, 2015, City Council authorized a professional services contract with Dal-Tech Engineering, Inc. for the engineering design of one street petition project on Gardenview Drive, from Alto Garden Drive to Loma Garden Avenue and one thoroughfare project on Highland Road, from Ferguson Road to Primrose at Highland by Resolution No. 15-0955.

On April 25, 2018, City Council authorized street paving, drainage, water and wastewater main improvements for Gardenview Drive from Alto Garden Drive to Loma Garden Avenue; provided for partial payment of construction costs by assessment of abutting property owners; an estimate of the cost of the improvements to be prepared as required by law; and a benefit assessment hearing to be held on June 13, 2018, to receive comments by Resolution No. 18-0602.

On June 13, 2018, City Council authorized a benefit assessment hearing to receive comments on street paving, drainage, water and wastewater main improvements for Gardenview Drive from Alto Garden Drive to Loma Garden Avenue; and at the close of the hearing, authorize an ordinance levying benefit assessments by Resolution No. 18-0872.

Information about this item will be provided to the Mobility Solutions, Infrastructure and Sustainability Committee on August 13, 2018.

## **FISCAL INFORMATION**

Street and Transportation Improvement Funds (2012 Bond Funds) - \$562,113.00  
Water Utilities Capital Improvement Funds - \$103,287.20  
Water Utilities Capital Construction Funds - \$10,532.00

Design	\$ 86,943.05
Construction (this action)	
Paving & Drainage - PBW	\$562,113.00
Water & Wastewater - DWU	<u>\$113,819.20</u>
Total	\$762,875.25

## **M/WBE INFORMATION**

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

<b>Contract Amount</b>	<b>Category</b>	<b>M/WBE Goal</b>	<b>M/WBE %</b>	<b>M/WBE \$</b>
\$675,932.20	Construction	25.00%	52.53%	\$365,419.00
<ul style="list-style-type: none"> <li>This contract exceeds the M/WBE goal.</li> </ul>				

### **BID INFORMATION**

The following seven bids with quotes were received and opened on March 23, 2018.

\*Denotes successful bidder(s)

<b><u>Bidders</u></b>	<b><u>Bid Amount</u></b>
* Tiseo Paving Company 419 US 80 Frontage Road Mesquite, Texas 75150	\$675,932.20
Jeske Construction Company	\$744,938.00
Vescorp Construction, LLC	\$770,208.50
Macval Associates, LLC	\$839,387.60
Joe Funk Construction, Inc.	\$897,512.80
FNH Construction, LLC	\$951,897.00

\*\*Camino Construction, LP disqualified for being non-responsive

Original estimate: PBW	\$1,248,990
DWU	<u>\$ 185,430</u>

Total Project	\$1,434,420
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### **OWNER**

Tiseo Paving Company

Arthur Tiseo, Registered Agent

### **MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 6, Outside City Limits  
**DEPARTMENT:** Water Utilities Department  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

Authorize a thirty-year contract with the City of Coppell to provide untreated water services from August 22, 2018 through August 21, 2048 - Estimated Annual Revenue: \$1,010,138.00 (at current wholesale water rate)

## **BACKGROUND**

The City of Coppell is located within Dallas Water Utilities' service area and desires to purchase untreated water services from the City of Dallas under the terms of a standard wholesale untreated water customer contract. The new contract will provide untreated water services from August 22, 2018 through August 21, 2048 and a maximum of 3,100 acre-feet per year with an estimated annual revenue of \$1,010,138.

The City of Coppell will use the untreated water to maintain the surface elevation of North Lake and for irrigation of the property surrounding the lake. By allowing the City of Coppell to utilize untreated water for irrigation, the contract will enable the City of Dallas to reduce potable demands on its system.

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On February 22, 2017, City Council authorized the City Manager to enter into an Interlocal Agreement with the City of Coppell by Resolution No. 17-0410.

On October 25, 2017, City Council authorized a thirty-year Wholesale Treated Water Contract with the City of Coppell by Resolution No. 17-1681.

Information about this item will be provided to the Mobility Solutions, Infrastructure and Sustainability Committee on August 13, 2018.

## **FISCAL INFORMATION**

Estimated Annual Revenue: \$1,010,138.00 (at current wholesale water rate)

## **MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 6  
**DEPARTMENT:** Department of Transportation  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

A public hearing to receive comments to amend the City of Dallas Thoroughfare Plan to change the dimensional classification of Chalk Hill Road between Davis Street and Singleton Boulevard from a six-lane divided roadway [M-6-D(A)] in 100 feet of right-of-way to a four-lane divided roadway (SPCL 4D) with bicycle facilities in 100 feet of right-of-way, and at the close of the hearing, authorize an ordinance implementing the change - Financing: No cost consideration to the City (see Fiscal Information for potential future costs)

## **BACKGROUND**

The City of Dallas Department of Transportation is requesting an amendment to Chalk Hill Road to facilitate implementation of a multimodal roadway project funded by the 2012 Bond. The proposed project aligns with the City's Bike Plan adopted by Council in 2011 and the Complete Streets Vision adopted by Council in 2016. The proposed design will provide a complete street with bike facilities on Chalk Hill Road. These facilities are one segment of the Dallas Circuit Trail Network that will connect Chalk Hill Trail, bike lanes on Singleton Boulevard and the Trinity River Trail. Traffic volumes can be accommodated with the four-lane roadway.

Staff recommends approval to the City of Dallas Thoroughfare Plan to change the dimensional classification of Chalk Hill Road from Davis Street to Singleton Boulevard from a six-lane divided roadway [M-6-D(A)] in 100 feet of right-of-way to a four-lane divided roadway (SPCL 4D) with bicycle facilities in 100 feet of right-of-way.

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On July 19, 2018, the City Plan Commission Thoroughfare Committee acted on this item and followed staff recommendation.

On August 2, 2018, the City Plan Commission acted on this item and followed staff recommendation.

Information about this item will be provided to the Mobility Solutions, Infrastructure &

Sustainability Committee on August 13, 2018.

**FISCAL INFORMATION**

This item has no cost consideration to the City. Future estimated cost includes schematic design for approximately \$6,630,449.00 beginning in FY 2018-2019 that will be funded by the 2012 General Obligation Bond Program.

**MAP**

Attached



**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 2, 6  
**DEPARTMENT:** Department of Public Works  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

Authorize **(1)** a reimbursement agreement with Atmos Energy for construction costs associated with the restoration of three alleys: 3703-3771 Cortez Drive & 3702-3770 Durango Drive; 3903-3991 Cortez Drive & 3904-3990 Durango Drive; and 3505-3523 Park Lane & 3511 Valley Ridge Road; affected by replacement of gas lines in northwest Dallas in an amount not to exceed \$67,583.00; **(2)** the receipt and deposit of funds from Atmos Energy in an amount not to exceed \$67,583.00; and **(3)** an increase in appropriations in the amount of \$67,583.00 in the Capital Projects Reimbursement Fund - Not to exceed \$67,582.50 - Financing: Capital Projects Reimbursement Funds

## **BACKGROUND**

On March 1, 2018, Atmos Energy conducted a planned outage, temporarily disconnecting natural gas service to approximately 2,800 homes in northwest Dallas. Atmos Energy has been replacing the entire natural gas distribution system, including mains and service lines for this area. The replacement of the gas line has affected three alleys which are included in the 2017 Bond Program.

In-lieu-of Atmos Energy completing final restoration of the three alleys, the Department of Public Works (PBW) expedited the 2017 Bond projects in the alleys and through this action, Atmos Energy will reimburse the City of Dallas the cost of Atmos Energy's final restoration. The following alleys will be restored by PBW:

### **Alley Name**

- 3703-3771 Cortez Drive and 3702-3770 Durango Drive
- 3903-3991 Cortez Drive and 3904-3990 Durango Drive
- 3505-3523 Park Lane and 3511 Valley Ridge Road

Atmos Energy entered into a reimbursement agreement stipulating they will reimburse the City of Dallas in an amount not to exceed \$67,582.50 for their share of costs for restoration of the three alleys.

## **ESTIMATED SCHEDULE OF PROJECT**

Begin Construction            July 2018  
Complete Construction       August 2018

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

Information about this item was provided to the Mobility Solutions, Infrastructure and Sustainability Committee on June 11, 2018.

## **FISCAL INFORMATION**

Capital Projects Reimbursement Funds - \$67,582.50

<b><u>Alley Name</u></b>	<b><u>Council District</u></b>	<b><u>Amount</u></b>
3703-3771 Cortez Drive & 3702-3770 Durango Drive	2	\$21,990.00
3903-3991 Cortez Drive & 3904-3990 Durango Drive	6	\$30,262.50
3505-3523 Park Lane & 3511 Valley Ridge Road	6	<u>\$15,330.00</u>
	Total	\$67,582.50

Atmos Energy will reimburse the City in an amount not to exceed \$67,582.50 for their share of costs for restoration of the three alleys.

## **MAPS**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 6  
**DEPARTMENT:** Department of Transportation  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

A public hearing to receive comments to amend the City of Dallas Thoroughfare Plan to **(1)** delete Manana Drive from Luna Road to Spangler Road; and **(2)** add Ryan Road from Luna Road to Spangler Road as a four-lane undivided roadway (S-4-U) within 60 feet of right-of-way and 44 feet of pavement, and at the close of the hearing, authorize an ordinance implementing the change - Financing: No cost consideration to the City

## **BACKGROUND**

Venture Metals has requested an amendment to realign the unbuilt segment of Manana Drive between Luna Road and Spangler Road to the existing footprint of Ryan Road. Ryan Road between Luna Road and the BNSF railroad currently exists as a two-lane roadway within 56 feet of right-of-way. The City does not own the right-of-way required to build Manana Drive in the current location on the Thoroughfare Plan. Ryan Road would be added to the Thoroughfare Plan as a standard four-lane undivided roadway.

The applicant has worked with the City and stakeholders to provide continued east-west connectivity along Ryan Road. Staff supports the realignment; however, Ryan Road currently exists within 56 feet of right-of-way and would require 60 feet of right-of-way. The proposed relocation of the Thoroughfare would utilize the established alignment of Ryan Road between Luna Road and BNSF railroad tracks, then would extend east to Spangler Road. This would provide an alternate route to IH-35E and Northwest Highway.

Staff recommends approval to the City of Dallas Thoroughfare Plan to (1) delete Manana Drive from Luna Road to Spangler Road and (2) add Ryan Road from Luna Road to Spangler Road as a four-lane undivided roadway (S-4-U) within 60 feet of right-of-way and 44 feet of pavement.

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On July 19, 2018, the City Plan Commission Thoroughfare Committee acted on this item and followed staff recommendation.

On August 2, 2018, the City Plan Commission acted on this item and followed staff recommendation.

Information about this item will be provided to the Mobility Solutions, Infrastructure & Sustainability Committee on August 13, 2018.

**FISCAL INFORMATION**

No cost consideration to the City.

**MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 8  
**DEPARTMENT:** Water Utilities Department  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

Authorize an increase in the construction services contract with Archer Western Construction, LLC for additional work associated with Grit Removal Improvements at Southside Wastewater Treatment Plant - Not to exceed \$248,021.56, from \$14,893,000.00 to \$15,141,021.56 - Financing: Water Utilities Capital Improvement Funds

## **BACKGROUND**

On February 22, 2017, City Council authorized a construction contract with Archer Western Construction, LLC for grit removal improvements at the Southside Wastewater Treatment Plant. These improvements include the replacement of deteriorated mechanical equipment with more efficient technology, structural modifications to accommodate new equipment and space for maintenance activities, and improvements to the electrical, heating, ventilation, air conditioning and odor control systems at both grit facilities.

During the construction of the grit removal improvements, two of the existing screens at the Influent Pump Station C failed from damage sustained to the chain and guide rail systems. The screens are an essential first line of protection for the equipment and processes downstream. The failure of these screens reduces the plant's operational capacity, and if not repaired can potentially damage the pumps and the new grit removal equipment being replaced through this contract. This action will authorize Change Order No. 1 to the construction services contract for additional work to repair the existing screens at the influent pump station.

## **ESTIMATED SCHEDULE OF PROJECT**

Began Design	October 2015
Completed Design	October 2016
Began Construction	April 2017
Complete Construction	April 2019

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On May 14, 2014, City Council authorized a contract with CP&Y, Inc. for preliminary engineering services associated with improvements to the grit removal and screenings handling processes at the Southside Wastewater Treatment Plant by Resolution No. 14-0765.

On August 26, 2015, City Council authorized Supplemental Agreement No. 1 to the engineering services contract with CP&Y, Inc. to provide engineering services associated with grit removal improvements at the Southside Wastewater Treatment Plant by Resolution No. 15-1581.

On February 22, 2017, City Council authorized a contract with Archer Western Construction, LLC for the construction of grit removal improvements at the Southside Wastewater Treatment Plant by Resolution No. 17-0411.

Information about this item will be provided to the Mobility Solutions, Infrastructure and Sustainability Committee on August 13, 2018.

### **FISCAL INFORMATION**

Water Utilities Capital Improvement Funds - \$248,021.56

Engineering Contract	\$ 850,000.00
Supplemental Agreement No. 1	\$ 1,779,270.00
Construction Contract	\$14,893,000.00
Change Order No. 1 (this action)	\$ <u>248,021.56</u>

Total Project Cost	\$17,770,291.56
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### **M/WBE INFORMATION**

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Category	M/WBE Goal	M/WBE%	M/WBE \$
\$248,021.56	Construction	25.00%	34.41%	\$85,352.00
• This contract exceeds the M/WBE goal.				
<i>Change Order No. 1 – 34.41% M/WBE participation, and has a 24.86% Overall M/WBE participation</i>				

### **OWNER**

**Archer Western Construction, LLC**

Daniel P. Walsh, President

Matthew M. Walsh IV, Secretary

**MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 6, Outside City Limits  
**DEPARTMENT:** Water Utilities Department  
**EXECUTIVE:** Majed Al-Ghafry

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## **SUBJECT**

Authorize Supplemental Agreement No. 2 to the professional services contract with CDM Smith, Inc. to provide additional engineering services for major rehabilitation of the ozone systems at the Bachman, East Side, and Elm Fork Water Treatment Plants - Not to exceed \$5,975,197.00, from \$288,380.00 to \$6,263,577.00 - Financing: Water Utilities Capital Construction Funds

## **BACKGROUND**

Ozone is Dallas Water Utilities' primary water treatment disinfectant at all three water treatment plants and is necessary to comply with federal regulations governing disinfection by-products, as well as improve the finished water quality by destroying taste and odor causing compounds. The first ozone system was installed at Elm Fork Water Treatment Plant in the early 1990's and was added to the East Side and Bachman Water Treatment Plants in 2002 and 2006 respectively. Preliminary engineering has identified Critical Performance Limiting Factors at each plant and for each part of the ozone systems. Initial evaluations were based on performance data, maintenance logs, energy consumption and mapping, as well as input from key plant operations and maintenance staff.

This action includes additional engineering services for the refinement of initial recommendations and to develop ozone process improvement designs. The driving forces will be to increase operational resiliency and equipment reliability and modify systems where applicable to minimize operational and maintenance costs. The design will provide reliable ozone production systems to meet system/customer demands now and in the future. The additional engineering services include design, construction phase services, system start-up assistance, operations training, control system improvements, performance warranty testing and updated operations and maintenance manuals. The ozone design and future construction improvements will be concurrent with water quality construction projects at the plants and will be coordinated to minimize impact on treatment plant capacity.

The estimated construction cost for this project is \$40,000,000.00



## **ESTIMATED SCHEDULE OF PROJECT**

Begin Design	September 2018
Completed Design	November 2019
Begin Construction	May 2020
Complete Construction	February 2022

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On June 17, 2015, City Council authorized a professional services contract with CDM Smith, Inc. for evaluation of the ozone systems at the Bachman, East Side, and Elm Fork Water Treatment Plants by Resolution No. 15-1189.

Information about this item will be provided to the Mobility Solutions, Infrastructure and Sustainability Committee on August 13, 2018.

## **FISCAL INFORMATION**

Water Utilities Capital Construction Funds - \$5,975,197.00

Design	\$ 271,980.00
Supplemental Agreement No. 1	\$ 16,400.00
Construction (this action)	<u>\$5,975,197.00</u>

Total Project Cost	\$6,263,577.00
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<b><u>Council District</u></b>	<b><u>Amount</u></b>
6	\$3,000,000.00
Outside City Limits	<u>\$2,975,197.00</u>
Total	\$5,975,197.00

## **M/WBE INFORMATION**

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Category	M/WBE Goal	M/WBE%	M/WBE \$
\$5,975,197.00	Construction	25.00%	26.66%	\$1,592,956.00
• Supplemental Agreement No. 2 - 26.66% M/WBE participation				
• This contract exceeds the M/WBE goal of 25.00%, and has an 26.55% Overall MWBE participation.				

**OWNER**

**CDM Smith Inc.**

Tim Wall, Chief Executive Officer

**MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** August 22, 2018  
**COUNCIL DISTRICT(S):** 3  
**DEPARTMENT:** Department of Trinity Watershed Management  
**EXECUTIVE:** Majed Al-Ghafry

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**SUBJECT**

Authorize acquisition from Juan I. Zaragoza, of approximately 18,750 square feet of land located on Kildare Avenue near its intersection with Kingsley Drive for the Kildare 4927 Voluntary Purchase Program - Not to exceed \$73,000.00 (\$70,000.00, plus closing costs and title expenses not to exceed \$3,000.00) - Financing: 2012 Bond Funds

**BACKGROUND**

This item authorizes the acquisition from Juan I. Zaragoza, of approximately 18,750 square feet of land improved with a single-family dwelling, storage building, and chain link fencing. This property is located on Kildare Avenue near its intersection with Kingsley Drive for the Kildare 4927 Voluntary Purchase Program. This property will be used to mitigate the continued erosion along the creek bed and associated safety risks for owners and creates open space with potential for community amenities. This is a voluntary purchase and the consideration is based on an independent appraisal.

The property experiences continued erosion along the creek bed with improvements threatened. A gabion wall installation was determined not to be cost effective.

**PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

Information about this item will be provided to the Mobility Solutions, Infrastructure & Sustainability Committee on August 13, 2018.

**FISCAL INFORMATION**

2012 Bond Funds (Flood Protection and Storm Drainage Facilities Improvement Fund) - \$73,000.00 (\$70,000.00, plus closing costs and title expenses not to exceed \$3,000.00)

**OWNER**

Juan I. Zaragoza

## **MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability

**AGENDA DATE:** August 22, 2018

**COUNCIL DISTRICT(S):** 2

**DEPARTMENT:** Department of Aviation

**EXECUTIVE:** T.C. Broadnax

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## **SUBJECT**

Authorize **(1)** a contract for the construction of the Security Controls Enhancement Project at Dallas Love Field - Construction Rent-A-Fence, Inc., lowest responsive bidder of three; and **(2)** an increase in appropriations in an amount not to exceed \$3,263,599.60 in the Aviation Capital Construction Fund - Not to exceed \$4,263,599.60 - Financing: Aviation Capital Construction Funds

## **BACKGROUND**

The physical perimeter of Dallas Love Field is bounded by nearly 40,000 linear feet of AOA (airport operations area) fence and vehicle gates. Engineering studies have been conducted to assess existing security features and determine if improvements should be added. This construction project will implement recent recommendations.

This action will authorize a construction contract with Construction Rent-A-Fence, Inc. to complete Security Controls Enhancement at Dallas Love Field.

On Wednesday, April 11, 2018, the Security Controls Enhancement Project at Dallas Love Field was publicly advertised for construction bids in the first of three published advertisements. On May 11, 2018, three bids were received. Construction Rent-A-Fence, Inc. was the apparent low bidder of the three, and it is recommended that the City of Dallas enter into a construction contract with Construction Rent-A-Fence, Inc. for the scope of work detailed in the project specifications and construction documents.

Construction Rent-A-Fence Inc. has had no previous contracts with the City of Dallas.

## **ESTIMATED SCHEDULE OF PROJECT**

Began Design	November 2015
Completed Design	March 2018
Begin Construction	October 2018
Complete Construction	November 2019

## **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On November 12, 2014, City Council authorized a professional services contract with Huitt-Zollars Inc. to provide engineering services for the Security Controls Enhancement Project at Dallas Love Field by Resolution No. 14-1918.

Information about this item will be provided to the Mobility Solutions, Infrastructure & Sustainability Committee on August 13, 2018.

### **FISCAL INFORMATION**

Aviation Capital Construction Funds - \$4,263,599.60

Design	\$ 999,618.10
Supplemental Agreement No. 1 (concurrent action)	\$ 71,577.52
Materials Testing	\$ 49,000.00 (est.)
Construction (this action)	<u>\$4,263,599.60</u>

Total Project Cost	\$5,383,795.22 (est.)
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### **M/WBE INFORMATION**

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Category	M/WBE Goal	M/WBE %	M/WBE \$
\$4,263,599.60	Construction	25.00%	92.76%	\$3,955,127.19
<ul style="list-style-type: none"> <li>This contract exceeds the M/WBE goal.</li> </ul>				

### **BID INFORMATION**

The following three bids were received and opened on May 11, 2018:

\*Denotes successful bidder

<b><u>Bidders</u></b>	<b><u>Bid Amount</u></b>
*Construction Rent-A-Fence, Inc. 21497 US Hwy 79 Taylor, TX 76574	\$4,263,599.60
Centennial Contractors Enterprises, Inc. 11111 Sunset Hills Road, Suite 350 Reston, VA 20190	\$4,892,227.96
Fort Worth Civil Constructors, LLC	\$5,311,646.64

P.O. Box 164513  
Fort Worth, TX 76161

**OWNER**

**Construction Rent-A-Fence, Inc.**

Wendy Ford, Vice President

**MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability

**AGENDA DATE:** August 22, 2018

**COUNCIL DISTRICT(S):** 2

**DEPARTMENT:** Department of Aviation

**EXECUTIVE:** T.C. Broadnax

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**SUBJECT**

Authorize Supplemental Agreement No. 4 to the professional services contract with M. Arthur Gensler Jr. & Associates, Inc. to provide architectural and engineering design for Garages A and B Fire Alarm System Replacement Project at Dallas Love Field - Not to exceed \$270,654.00, from \$816,798.00 to \$1,087,452.00 - Financing: Aviation Current Funds

**BACKGROUND**

Garage A at Dallas Love Field was built in 1984 and currently offers parking for 3,000 vehicles. Garage B and the Pedestrian Concourse were completed in 2004. Garage B currently provides 4,000 parking spaces.

On July 8, 2014, City Council authorized a professional services contract with M. Arthur Gensler Jr. & Associates, Inc. to provide design services for Dallas Love Field Garages A and B Condition Assessment Project. Contract amount was \$228,140.00.

This action will authorize Supplemental Agreement No. 4 to the professional services contract with M. Arthur Gensler Jr. & Associates, Inc. to provide design, construction documents, and construction administration for complete fire alarm replacement, which was identified in Condition Assessment as nearing end of its useful life. Total fee increase in Supplemental Agreement No. 4 is \$270,654.00.

**ESTIMATED SCHEDULE OF PROJECT**

Begin Design	September 2018
Complete Design	April 2019
Begin Construction	July 2019
Complete Construction	November 2019

**PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**



On July 8, 2014, City Council authorized a professional services contract with M. Arthur Gensler Jr. & Associates, Inc. for design services for Dallas Love Field Garages A and B Condition Assessment Project by Resolution No. 14-1012.

On May 25, 2016, City Council authorized Supplemental Agreement No. 3 for design, construction documents, and construction administration services for repair to Dallas Love Field Garage A & B and Pedestrian Concourse by Resolution No. 16-0813.

Information about this item will be provided to the Mobility Solutions, Infrastructure & Sustainability Committee on August 13, 2018.

### **FISCAL INFORMATION**

Aviation Current Funds - \$270,654.00

Original Contract	\$ 228,140.00
Supplemental Agreement No. 1	\$ 10,882.00
Supplemental Agreement No. 2	\$ 17,600.00
Supplemental Agreement No. 3	\$ 560,176.00
Supplemental Agreement No. 4 (this action)	<u>\$ 270,654.00</u>

Total Contract Cost \$ 1,087,452.00

### **M/WBE INFORMATION**

In accordance with the City's Business Inclusion and Development Plan adopted on October 22, 2008, by Resolution No. 08-2826, as amended, the M/WBE participation on this contract is as follows:

Contract Amount	Category	M/WBE Goal	M/WBE %	M/WBE \$
\$270,654.00	Architecture & Engineering	25.66%	31.23%	\$84,517.00
• Supplemental Agreement No. 4 – 31.23% M/WBE participation				
• This contract exceeds the M/WBE goal of 25.66% and has an Overall M/WBE of 39.64%				

### **OWNER**

**M. Arthur Gensler Jr. & Associates, Inc.**

Cindy Simpson, Managing Director and Principal

### **MAP**

Attached

**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability

**AGENDA DATE:** August 22, 2018

**COUNCIL DISTRICT(S):** 2

**DEPARTMENT:** Department of Aviation

**EXECUTIVE:** T.C. Broadnax

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**SUBJECT**

Authorize the first three-year renewal option to the Distributed Antenna System (DAS) and wireless fidelity system (Wi-Fi) Network contract with Concourse Communications Group, LLC and amend the contract to **(1)** reduce current contract revenue share to 20% for the DAS and Wi-Fi System Network; **(2)** reduce the Minimum Annual Guarantee from \$300,000.00 to \$225,000.00; **(3)** convert the airport Wi-Fi model from paid to free; and **(4)** extend the contract from August 22, 2012 to April 15, 2025 - Estimated Revenue Foregone: \$845,000.00 over six-year period

**BACKGROUND**

On August 22, 2012, City Council authorized a six-year contract, with two three-year renewal options to design build and manage a carrier neutral cellular antenna and Wi-Fi system at Love Field for the design, build and management of a carrier neutral cellular and Wi-Fi (wireless fidelity) system for approximately 920,000 square feet of public terminal space. This system has supported approximately 12 million passengers annually, airline tenants, airport operations, Dallas Police, Love Field airport facilities and operations staff.

This action authorizes an amendment to the existing agreement to provide the DAS System to support the travelling public, airlines tenants, other airport tenants, the City's Department of Aviation Operations Division, and the Dallas Police Department (DPD) at the Airport by providing cellular telephone access and data access through a distributed antenna system. Radio signals for the DPD and Airport Operations shall be carried on the DAS System for Airport Facilities.

This amendment to this contract agreement includes the following conditions:

1. The operator pays the City:
  - a. Twenty Percent (20%) of DAS System Gross Revenues Twenty Percent (20%) of Wi-Fi System Gross Revenues
  - b. Twenty Percent (20%) of Gross Revenues for Operator's business at the

Airport, other than directly through the Distributed Antennae System (DAS), Wi-Fi System or for Clear Channel or CNN; and

- c. Seventy-Five Percent (75%) of Gross Revenues for the relevant period of time derived from Operator's existing agreement with Clear Channel/CNN. Such revenue will be included in the definition of Operator's Other Business Gross Revenues.
2. The percentage Fee shall be amended so that Operator pays City:
  - a. Twenty Percent (20%) of DAS System Gross Revenues Twenty Percent (20%) of Wi-Fi System Gross Revenues
  - b. Twenty Percent (20%) of Gross Revenues for Operator's business at the Airport, other than directly through the Distributed Antennae System (DAS), Wi-Fi System or for Clear Channel or CNN; and
  - c. Seventy-Five Percent (75%) of Gross Revenues for the relevant period of time derived from Operator's existing agreement with Clear Channel or CNN.
3. The Minimum Annual Guarantee ("MAG") as it applies to each year of the remaining Term of the Agreement shall be amended as follows:
  - a. The Operator will pay the City Two Hundred Twenty-Five Thousand Dollars (\$225,000.00) during each remaining year of the Agreement.
  - b. The new revenue share and MAG decrease will enable Concourse Communications Group, LLC to fund a one-time equipment upgrade and increase internet capacity to meet the demands anticipated for the increased traffic and data usage that will be generated by the City of Dallas, Department of Aviation converting to free Wi-Fi.

This contract amendment will allow the Department of Aviation to service all Dallas Love Field airport travelers with access to free Wi-Fi after watching advertisements and allow Concourse Communications Group, LLC to source and upgrade hardware. Concourse Communications Group, LLC will continue to maintain, upgrade software as needed and operate the DAS Wi-Fi systems at their cost as needed, to provide the same high level of service currently delivered.

#### **PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On August 22, 2012, City Council authorized a six-year contract, with two three-year renewal options, and a minimum guarantee to design, build and manage a carrier neutral cellular antennae and Wi-Fi (wireless fidelity) system at Love Field by Resolution No. 12-2075.

Information about this item will be provided to the Mobility Solutions, Infrastructure & Sustainability Committee on August 13, 2018.

**FISCAL INFORMATION**

Estimated Annual Revenue Foregone: \$845,000.00 over six-year period beginning in FY 2018-2019

**OWNER**

**Concourse Communications, LLC**

Mark Deshaies, Vice President, Operations