



A/E/C Committee Meeting

RHCA . . . the leader in Diversity Inclusion
Networking and building business relationships and opportunities

June 14, 2023

Disclaimer: This webinar is not intended for press purposes. If you are part the press, please disconnect.

Join us on Social Media #DFWRHCA @DFWRHCA



Housekeeping Rules

- Keep yourself muted throughout the meeting
- Please make sure to stay for the whole meeting
- Presentation will be emailed
- Q&A will be after each presentation
- Ask questions in the chat
- Please make sure to keep your camera on, at all times
- If you get logged out, please re-login using the same link

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Welcome

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Committee Introductions

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Looking to hire individuals with training? **ConnectU2Jobs Workforce Development Training Program**

Discover the advantages of **ConnectU2Jobs**, a nine-week program that boosts trainees with advanced training, practical experience, and access to the latest tools and equipment.

Partner with Skilled Trainees to Optimize Your Workforce Potential as a Contractor

Trainees learn about

- o Construction Math
- o Hand Tools
- o Power Tools
- o Construction Drawings (Blueprint reading)
- o Heavy Equipment Operator Training
- o Flagger Certification
- o OSHA 10

Trainee requirements

- Must be 18 years old
- Valid Driver's License, Social Security Card and Authorized to Work in the United States

Program Partners:



Register by June
12th to join the next
Cohort



Individuals who participate in CU2J are:

- Recent High School Graduates
- Anyone looking to transition into the civil infrastructure industry

ConnectU2Jobs is part of the Texas Department of Transportation's equal opportunity system and is dedicated to providing fair and equal education and employment opportunities without regard to race, color, religion, sex (including sexual orientation and gender identity), national origin, pregnancy, genetic information, citizenship or immigration status, military status, disability, or age. All contractors, vendors, and consultants working in partnership with the ConnectU2Jobs program, including the RHCA, commit to this equal employment opportunity (EEO) policy.

For more information contact: Eduardo Martinez, eduardo@regionalhca.org, 972-786-0909

<https://form.jotform.com/231346454129152>

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Regional Hispanic Contractors Association
Membership Luncheon
 RHCA Ambassadors Meet and Greet

Presented by **DFW**

Wednesday, June 14th, 2023
11:30 AM - 1:00 PM

Dallas College West Campus
 3330 N Hampton Rd., Dallas, TX 75212

Register Today!
 RHCA Members \$25 | Non-members \$35
 Exhibitor Opportunities

Registration
 Registration includes lunch

SPECIAL PRESENTATIONS

DFW Internal Airport
 Meet the team and learn about the new programs and initiatives.

Learn how DFW is making investments that set the stage for the airport of the future.

- \$4.8 Billion in pre-approved capital projects
- Terminal F
- Central Terminal Area Expansion
- Business Opportunities Forum
- Airport Buying Plan

Tammy Huddleston
 Vice President of Design, Code & Construction
 DFW International Airport

Robert Rodriguez
 Assistant VP, Code, Construction & Survey
 DFW International Airport

The City of Dallas Development Services Department team will provide an update on the new programs and initiatives.

- Minor Commercial 2nd Q-Team
- Rapid Single Family VIP Program
- Lunch and Learn Training
- Technology Updates
- New Permitting System
- New Location and Facilities

Andrew Espinoza, CBO, MCP, CFM, CCEA
 Director/Chief Building Official
 City of Dallas Development Services Department

Development Services Department
 "Together We Are Building a Safe and United Dallas!"

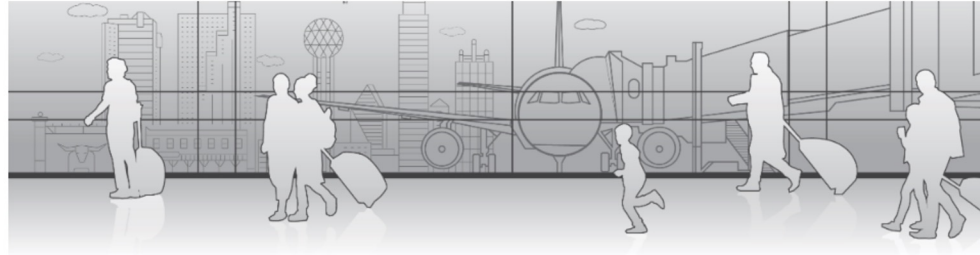
Sponsors: **ferrovial construction** **stv** **AT&T**

Corporate partners: **PHILLIPS MAY CORPORATION** **Turner** **DFW** **YANIB** **Austin** **CSRS** **Fort Worth** **McCarthy** **ATMOS energy**

<http://events.r20.constantcontact.com/register/event?llr=ymfrebdb&oeidk=a07ejr9u0wv1b8eb2ad>

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SAVE
THE
DATE

DFW BUSINESS OPPORTUNITY FORUM

WEDNESDAY, JUNE 21, 2023

Doors Open 8 AM - Event Ends 11 AM

AMC Grapevine Mills

3150 Grapevine Mills Pkwy, Grapevine, TX 76051

DFW

One Story. One Future. One DFW.

The countdown has begun and registration for DFW's Business Opportunity Forum is now open!

This is your opportunity to attend an infrastructure and development centered event on June 21st.

Attendees will gain insight into DFW Airport's operations, upcoming opportunities, and in-person networking with airport executives, architecture, engineering and construction firms, suppliers, partners, and advocacy groups. You will also learn more about capital programs, controls & analytics, sustainability, business diversity & development, procurement and how to position your company for success.

The event is taking place in person at AMC Theaters Grapevine Mills. An online option will be available at the **DFW Business Opportunity** website.

We look forward to seeing you there. Click the link below to register today. If you have any trouble with registration, please feel free to **contact us**.

[CLICK HERE TO LEARN MORE AND REGISTER](https://dfwopportunityforum.digitalevent.us)

<https://dfwopportunityforum.digitalevent.us>

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RHCA

CONTRACTOR SMALL BUSINESS SUMMIT

JUNE 27, 2023

**8:30 AM - 1:00 PM
DALLAS COLLEGE WEST CAMPUS
3330 N HAMPTON RD.
DALLAS, TX 75212**

REGISTRATION

PRESENTED BY



TOPICS

- Learn about cutting-edge construction management software
- Best practices for easily implementing software while keeping your sanity
- How to get employee buy-in and maximize usage across the organization
- Filing a Lien: What Contractors Need to Know
- The Benefits of Filing a Lien for Texas Contractors
- Building a Consistent Collections Strategy
- Gain knowledge on the different Banking Products to increase your bond capacity
- Be introduced to new Bond Programs
- Learn the RoadBlocks to Bonding and how to overcome them
- How minority and small businesses build strong relationships with General Contractors
- Building strong relationships with your construction partners

<https://form.jotform.com/231434913111141>

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LUNA AWARDS

2023 ARCHITECTURE, ENGINEERING, AND CONSTRUCTION

Austin, Corpus Christi, Dallas/Fort Worth, El Paso, Houston, and San Antonio

Statewide Luna Awards



Call for Nominations!

Important Dates: Nominations Close August 7th | Submissions Due August 21



Corpus Christi
Luna Awards Luncheon
Thursday, September 7, 2023
11:30 AM - 1:30 PM
American Bank Center
Henry Garrett Ballroom C
1901 N. Shoreline Blvd. Corpus Christi, TX 78401



Houston
Luna Awards Luncheon
Friday, September 8, 2023
11:30 AM - 1:30 PM
The Junior League of Houston
The Tea Room
1811 Briar Oaks, Houston, TX 77027



San Antonio
Luna Awards Luncheon
Thursday, October 5, 2023
11:30 AM - 1:30 PM
Marriott Rivercenter
Pearl 1-3
101 Bowie Street, San Antonio, TX 78205-3901



Austin, Texas
Luna Awards Luncheon
Friday, October 6, 2023
11:30 AM - 1:30 PM
Austin Marriott South
Lone Star Ballroom A
4415 S-135 Frontage Rd., Austin, TX 78744



El Paso
Luna Awards Luncheon
Friday, October 27, 2023
11:30 AM - 1:30 PM
The Plaza Hotel Pioneer Park
Trost Ballroom & Mezzanine
106 W Mills Ave, El Paso, TX 79901



Dallas/Fort Worth
Luna Awards Luncheon
Thursday, November 9, 2023
11:30 AM - 1:30 PM
Sheraton Dallas Hotel
Dallas Ballroom
400 N Olive Street, Dallas, TX 75201



#IAMLUNA

#LUNASTATEWIDE

Registration: <https://form.jotform.com/230085618271151>

Nomination: <https://rhcaluna.awardsplatform.com>

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SAVE THE DATE

BUILD FORT WORTH EXPO

Opportunities Await at **BUILD F W** 2023

August 18, 2023

Will Rogers Memorial Center - Fort Worth, TX



<https://form.jotform.com/222965555456164>

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R H C A

Clay Shoot Classic

presented by



Friday, September 15, 2023

8:00 AM - 2:00 PM

Elm Fork Shooting Sports
10751 Luna Rd, Dallas, TX 75220

- 8:00 AM** Players Registration | Breakfast Tacos & Coffee
- 9:00 AM** Regulations Overview Tournament
- 12:00 PM** Lunch & Team Awards | Scotch & Cigars



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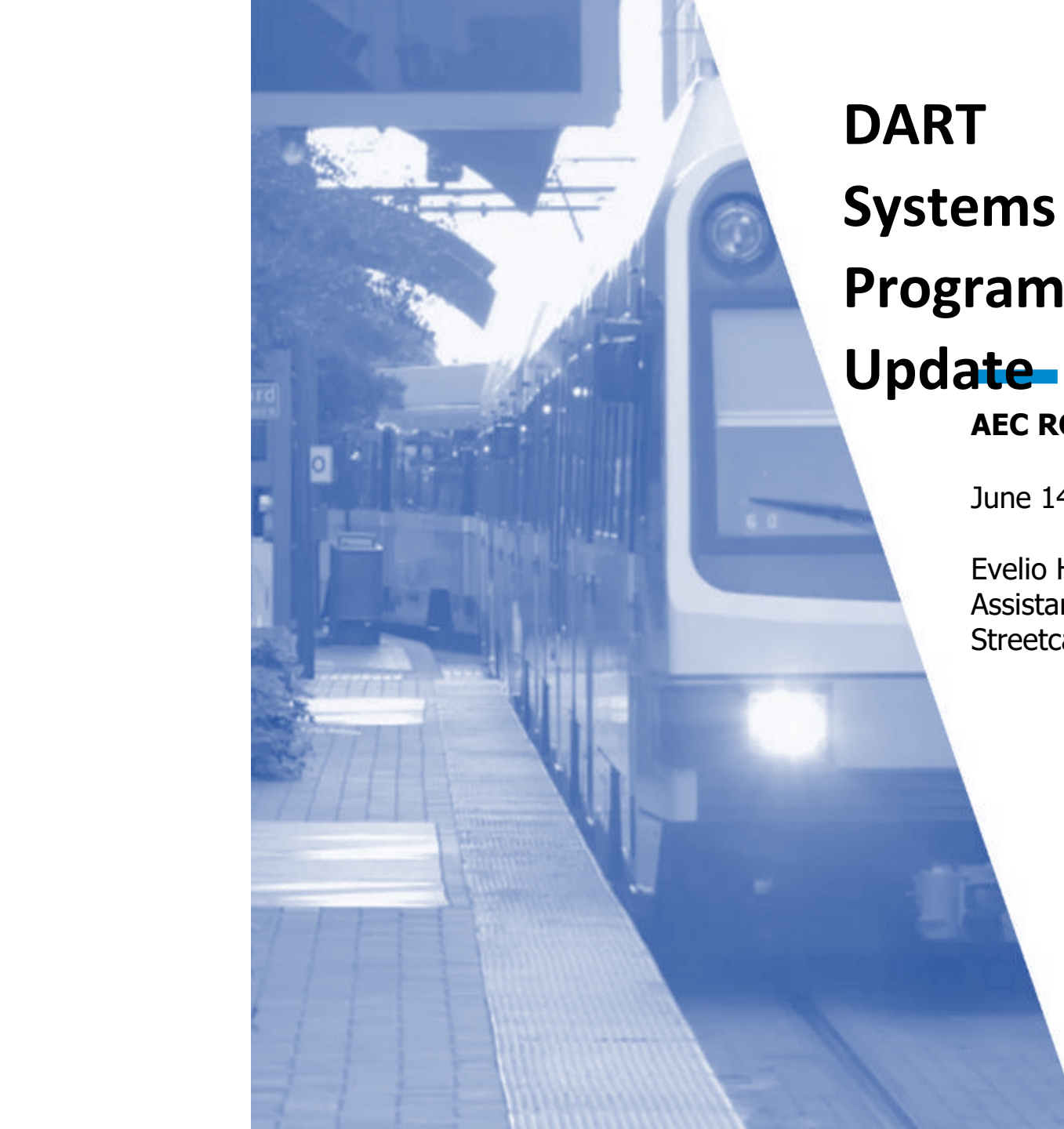


Guest Speaker

Evelio Hernandez, P.E.
Assistant Vice President
Streetcar-Systems Engineering
DART

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DART Systems Modernization Program Update

AEC ROUNDTABLE

June 14, 2023

Evelio Hernandez, P.E.
Assistant Vice President
Streetcar-Systems Engineering



Today's Discussion

- Why are we Here and Why This Matters
- Systems Approach
 - Key Elements
 - Customer Experience and Engagement
- How to Get There
 - Program Management Consultant (PMC)
- Next Steps

Why are we here?

- **DART's Aging System**
 - Turns 40 this year...
 - Light rail lines are over 25-years old...
- **Assets Lifecycle Replacement**
 - 2025 Pivotal Year
 - Rail Cars & Buses reach end of Design Life
- **Systems Modification**
- **Technology Evolution**
- **Modernization**

Why This Matters

Over the next ten years, variety of asset replacements and infrastructure improvements are required:

- **Fleet Replacement**

- ◆ New light rail vehicles, fixed route buses, and commuter rail vehicles for TRE

- **Infrastructure changes**

- ◆ Interdependency of vehicles and wayside infrastructure requires a comprehensive systematic approach to project delivery
- ◆ Operating facility changes to accommodate new vehicle technology, wayside systems, and customer facing stations and passenger amenities improvements

- **Customer Experience & Stakeholder Engagement**

- ◆ These efforts matter to our customers and stakeholders
- ◆ The customer experience is critical to process
- ◆ Improvements should reflect the DART brand, our future vision, and our surrounding communities

Systems Approach

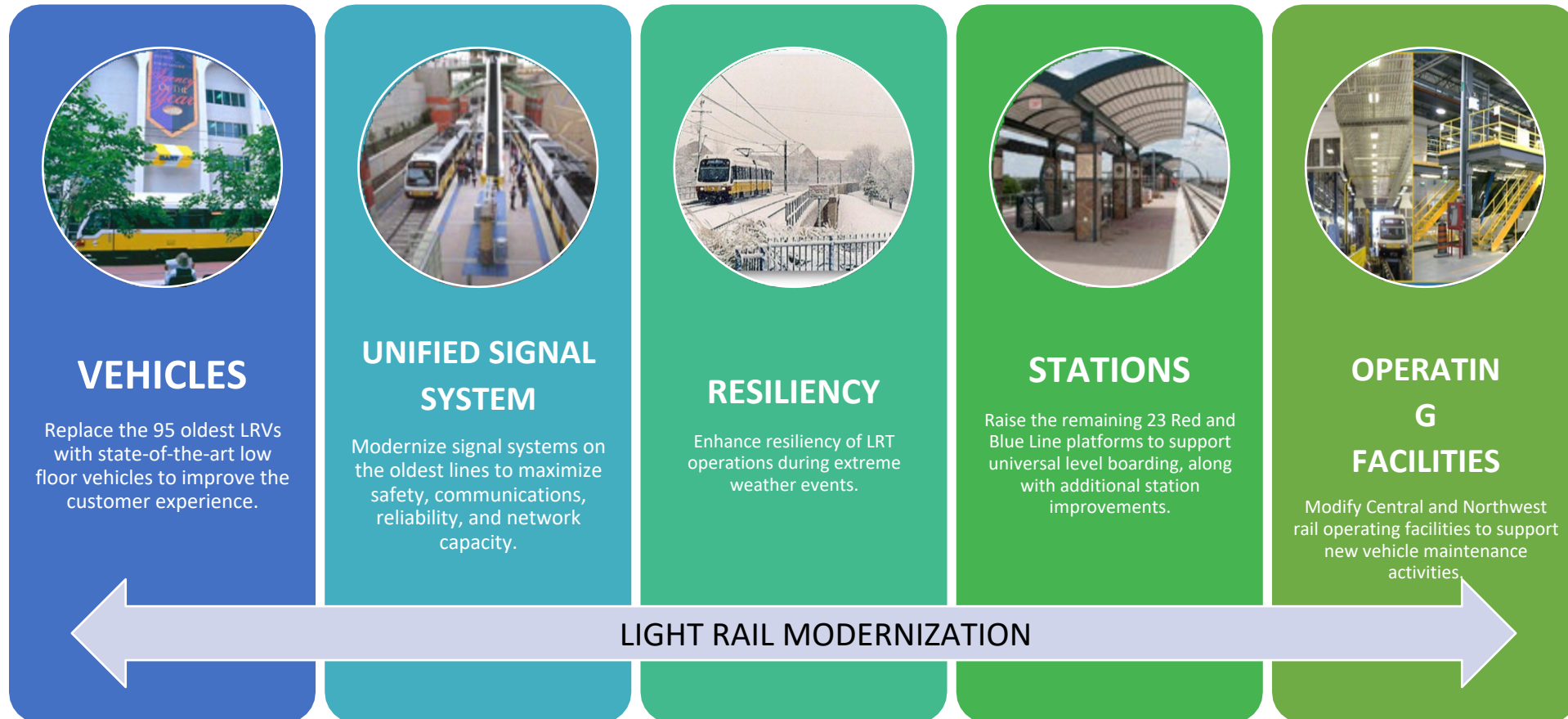
- The interdependency of vehicles and infrastructure requires a well-planned systematic approach to project delivery
- Additional project management and technical resources are needed to support and execute what is likely a **\$2+ Billion** program
- Additional efforts that will influence how we approach modernization include:
 - Strategic Plan
 - Mobility + Program initiatives, such as Phase 2 Bus Network Plan, Mobility Hub Guidelines, and New Bus Amenities
 - Zero Emission Bus Fleet Transition Plan
 - State of Good Repair (SGR) Assessment/Asset Management Strategy
 - TRE Fleet Replacement Study
 - Bus Operating Facilities Master Plan

Program Goals

- **Customer Experience** - Focused on improving the customer experience
 - Security, Cleanliness, Reliability, and Amenities
- **State of Good Repair** - Continued stewardship of system assets
 - Operability, Maintainability, Reliability, and Resiliency
- **Modernization** - Enhanced mobility options
 - Level Boarding, Unified Signal System, Facilities Improvements, System Resiliency, Capacity and Efficiency



Core Program Elements*



***There will be similar modernization elements for bus and commuter rail**

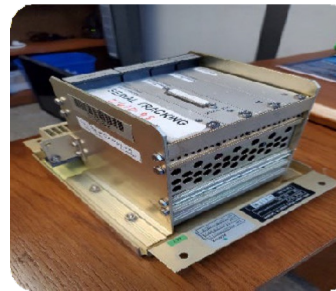
Light Rail Vehicles

◆ **Oldest 95 of 163 vehicles are reaching end of useful life**

Exterior Body



Parts Obsolescence



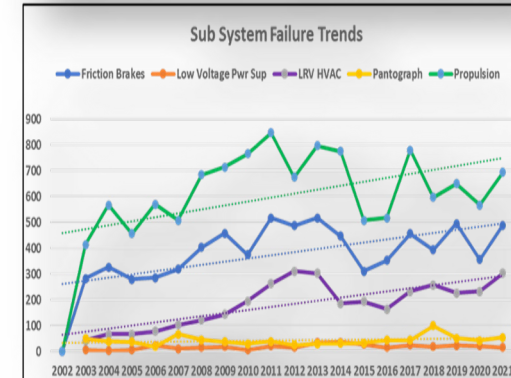
SIEMENS Evaluation Unit
Train Stop System



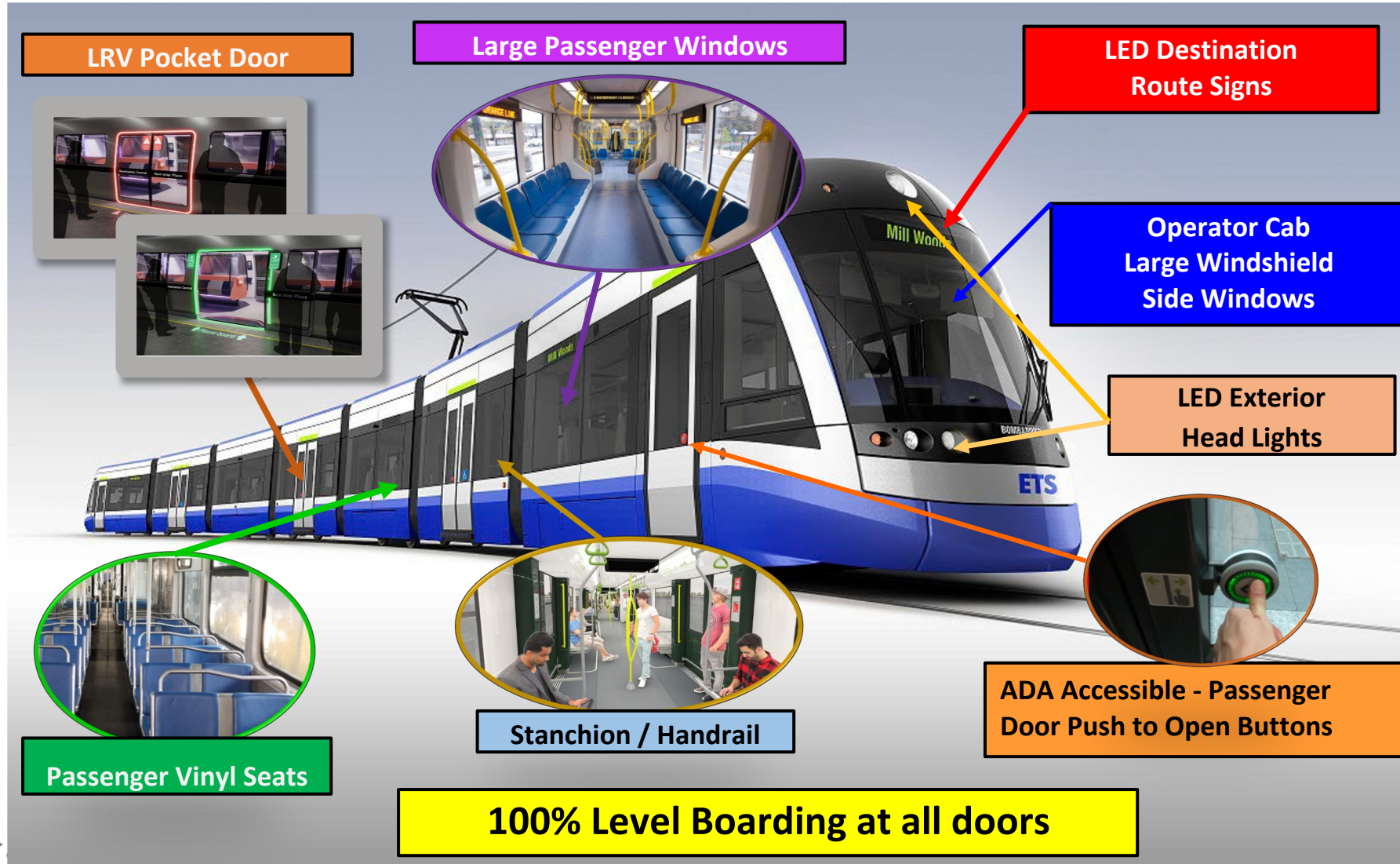
WABCO S1
Servotrol

Reliability

Maintenance Work Orders by Fiscal Year						
Fiscal Year	Friction Brakes	Low Voltage Power Supply	LRV HVAC	Pantograph	Propulsion	Grand Total
2002	1				1	2
2003	228	3	40	46	379	696
2004	288	2	65	33	524	912
2005	242	6	66	35	424	773
2006	249	22	76	15	529	891
2007	277	10	102	62	487	938
2008	349	16	122	41	645	1173
2009	386	18	143	37	663	1247
2010	320	6	193	24	704	1247
2011	419	20	260	36	780	1515
2012	412	14	310	19	631	1386
2013	442	33	291	28	761	1555
2014	396	33	184	31	743	1387
2015	274	26	193	31	487	1011
2016	295	15	161	41	474	986
2017	365	24	229	39	725	1382
2018	331	19	254	98	568	1270
2019	401	19	225	46	601	1292
2020	294	20	231	40	525	1110
2021	401	15	301	41	630	1388
Grand Total	6370	321	3446	743	11281	22161



New LRV Features and Technology



Operating Facility Modifications

- Both Central and Northwest Rail Operating Facilities will be modified to accommodate new LRVs



Increased Roof Access



Monorail Crane



Body Lifts



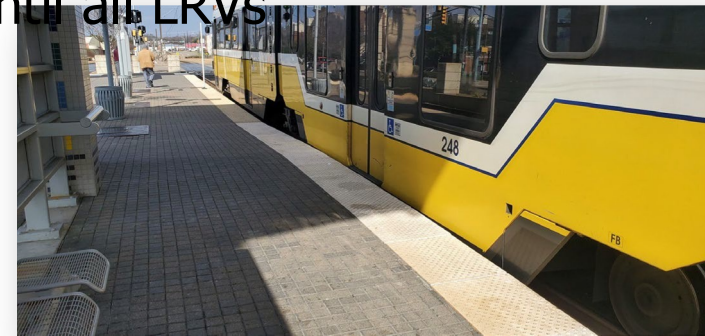
Wheel Profiling

Red & Blue Lines Level Boarding

- 23 Red and Blue Line Stations to be raised by 7.5 inches
 - Four aerial stations
 - One subway station
- This will allow for universal accessibility at all doors on new vehicles
- Current vehicles will continue to be accessible via the low-floor section of each vehicle until all LRVs are replaced

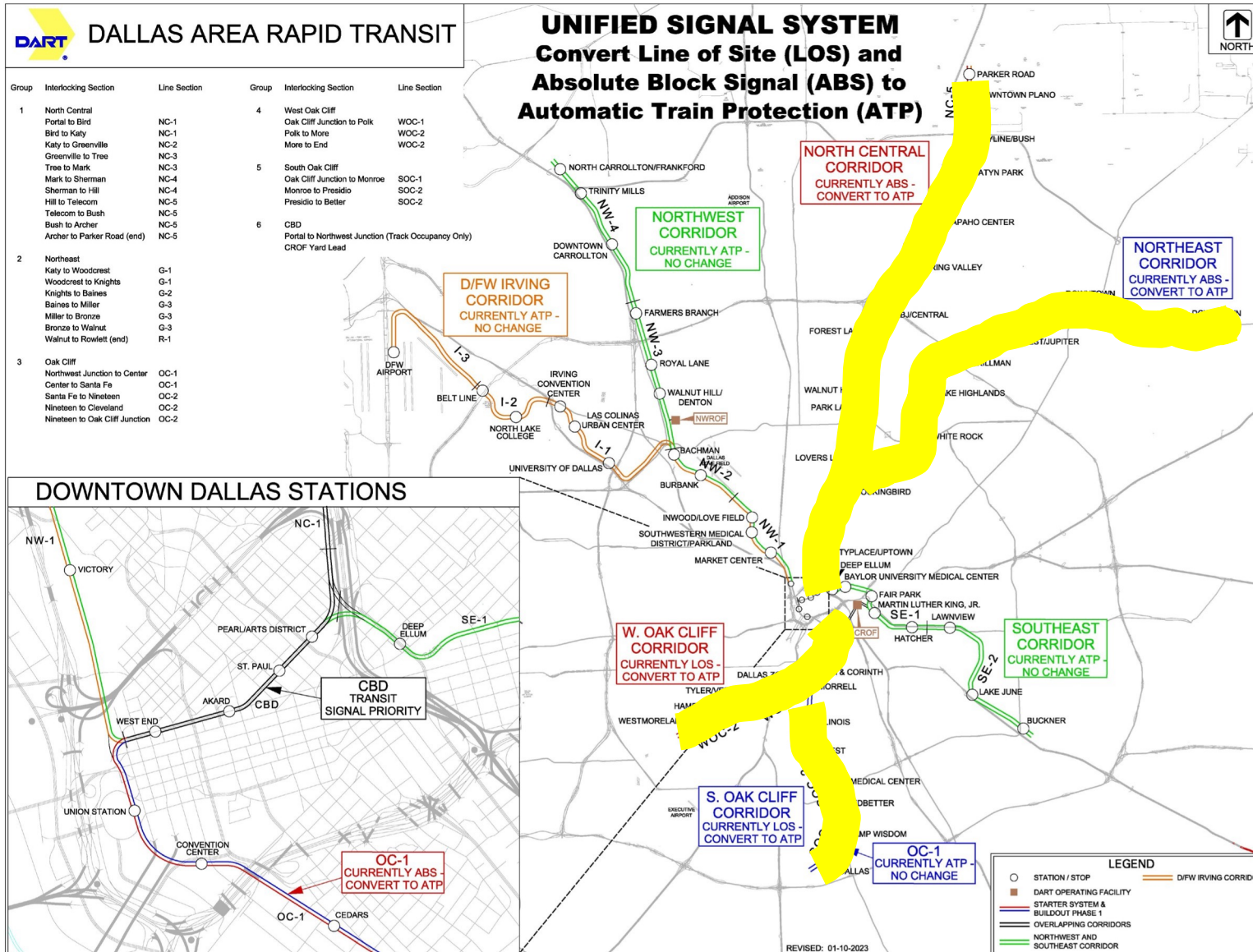


Fully Raised Platform



Mini-Level Boarding Area

Unified Signal System



Red and Blue Lines

- 48 Miles of Red and Blue Lines
 - Line of Sight
 - Block Indicators
 - Absolute Block
 - Street Running
 - Median Running
 - 21 Interlockings
 - 5 Major Junctions
 - 5 Crossovers
 - 2 Pocket Tracks



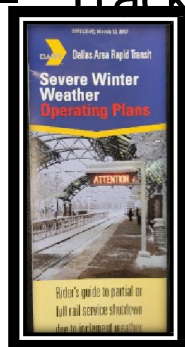
**ABS INTERLOCKING
SIGNAL**



**GREEN BAND STREET
RUNNING**

Rail Winterization Study

- System modernization program will support opportunities to improve resiliency to minimize disruption to service during extreme weather
 - Light Rail Vehicles
 - Facilities
 - Stations
 - Traction Power, Signals
 - Track



Guideway

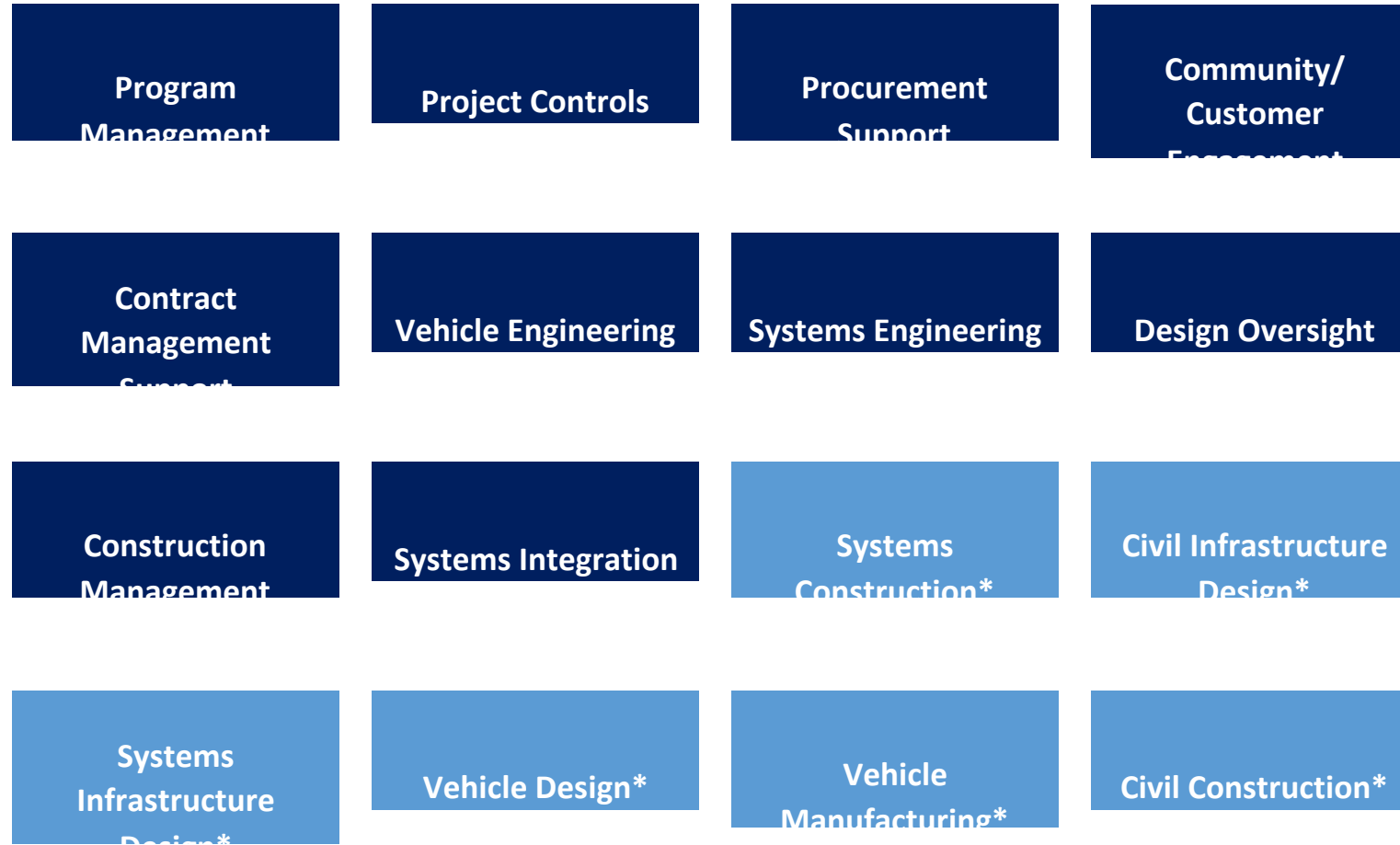


Switch Machines

How to Get There

- The magnitude of this program requires comprehensive support of a Program Management Consultant (PMC)
- Role of the PMC will be to:
 - Supplement DART staff
 - Help develop/train DART staff to execute projects with a more holistic Systems Engineering approach
 - Seamlessly coordinate various program elements
 - Allow for quick deployment and scaling of technical resources across life of program
 - Leverage best practices/prior experience from other systems
 - Provide deep bench of technical expertise across vehicles, systems and project management
 - Allow for resources to be organized by mode allowing for simultaneous deployment and activities

Program Management Consultant's Scope*



* Design and construction services will be delivered separately

Procurement Plan for PMC

ACTIONS TO BE TAKEN

- RFP Developed: May 21
- Issue Proposal: May 31
- Pre-Proposal Conference: June 21
- Due back: August 1
- Evaluations Complete: August 29
- Oral Presentations: September 8
- HTQ Determination: September 15
- Price Request/Receipt: September 29
- Negotiations Complete: October 6
- Board Approval: October/November
- Award: November/December

Next Steps

- Fall 2023
 - System Modernization Industry Forum
 - Customer Experience Activities
 - Program Scope Development
- Spring 2024
 - Vehicle RFPs
 - Signal System RFPs
 - Station RFPs

Thank You!



DART.org

Q & A

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AEC Committee Upcoming Events and Topics of Interest

- City of Dallas Event
- Heavy Highway Forum – Statewide
- Build Fort Worth 2023 Construction Expo
- Municipal Improvements
- Water/Wastewater Event
- Federal Event
- Facilities Event
- Water Resources Event
- Transportation/Roadway Event

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Heavy Highway Forum 2023 – Statewide

- Thursday, September 21 or Friday, September 22 - Austin & San Antonio Districts
- Thursday, October 19 or Friday, October 20 - Houston District
- Friday, November 17 or Friday, December 1 - Dallas and Fort Worth Districts

Note: These dates do not fall on a “letting date”

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2023 Heavy Highway Forum

Budget Goal All Three Cities

- Revenue 70,000.00

2022 Heavy Highway Forum

- Revenue 38,000.00
- Expenses 2,608.24
- Net Income 35,391.76
- Attendance 150

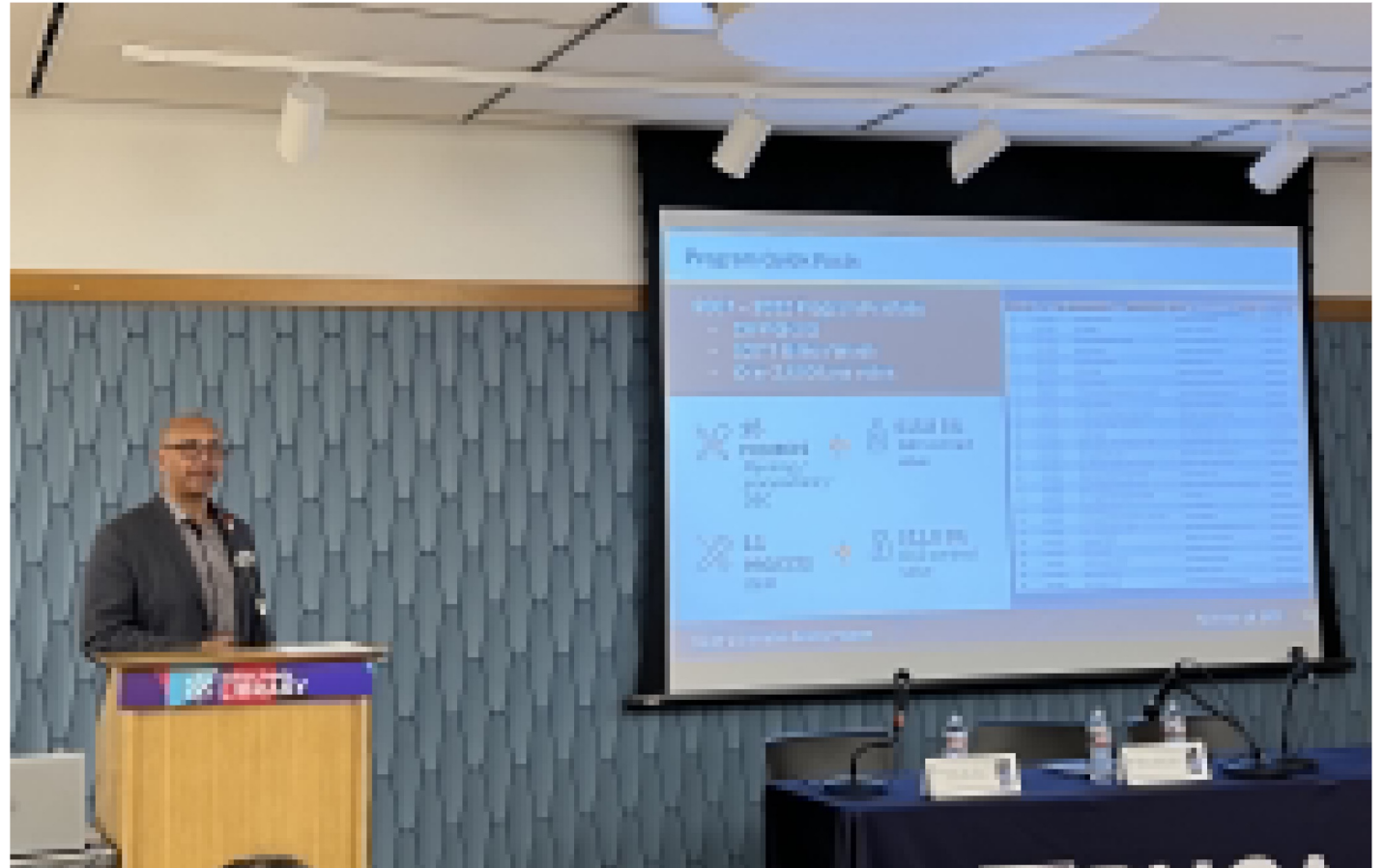
2021 Heavy Highway Forum

- Revenue 13,050.00
- Expenses 212.39
- Net Income 12,837.61
- Attendance 120



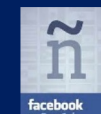
2023 Heavy Highway Forum Proposed Agenda

- Welcome Remarks – 8:30 am
- TxDOT Statewide Update – 9:00 am
- District Update – 9:45 am
- Breakout Session 10:20 am
 - Construction
 - PEPS
- Lunch Break – 11:30 am
- Alternative Delivery Presentation 11:45 am
- Closing Remarks 12:00 pm



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2023 Heavy Highway Forums Next Steps

- Identify Venues
 - Houston
 - Central Texas (South Austin, North of San Antonio)
 - Dallas / Fort Worth Arlington
- Venue Requirements
 - Main Room Capacity
 - 150 attendees
 - 15-20 exhibitors
 - Food can be allowed
 - Breakout Room Capacity
 - 60 attendees
- Sponsorship Menu
- Identify Partnering Organizations
 - Houston
 - Central Texas
 - Dallas/Fort Worth
- Committee Meeting Schedule



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RHCA | Webinar

Infrastructure Bill Opportunities Impact on Texas with a Focus on North Texas

- ***Federal highway programs:*** \$26.9 billion
- ***Public Transportation:*** \$3.3 billion
- ***Drinking water infrastructure (and removing lead pipes):*** \$2.9 billion
- ***Airports:*** \$1.2 billion
- ***Bridge replacement and repairs:*** \$537 million
- ***Electric vehicle charging network:*** \$408 million
- ***Broadband expansion:*** \$100 million
- ***Wildfire protection:*** \$53 million
- ***Cyberattacks protection:*** \$42 million

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Agenda

2023 Pre-Committee Meeting Date Agenda Review

- Wednesday, May 17, 2023
- Wednesday, June 21, 2023
- Wednesday, August 16, 2023
- Wednesday, September 20, 2023
- Wednesday, October 18, 2023
- Thursday, November 16, 2023 *
- Wednesday, December 14, 2023*

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RHCA | Subcommittee

Help with inviting monthly guest speakers

Example:

The invitation details are listed below:

Date: Tuesday, November 9, 2021

Time Duration: 10 to 15 minutes (if you need more please let me know)

Time Range: Any 15 minutes between 8:45am to 10:00am CST

Via online Video: Zoom Video Conference

Committee: RHCA Economic and Business Development Committee: Audience – Contractors/Professional Services/Public Agency Employees

Topic: Texas Emission Reduction Plan (TERP) Program overview & Benefits for contractors

Presentation: PowerPoint Due by Monday, November 8 – To Jonathon Garcia

Other Items Needed: (1) Headshot in JPEG (2) Title

Link to recommend guest speakers: <https://forms.office.com/Pages/ResponsePage.aspx?id=m9gkZ9IDKEWQMA6zN7Gyu1-t7tkG5ypLvhsQy7hgMRUNUdGT0UwVIVLTDVRSFNDUjZGU09VVFVPC4u>

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Q & A

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