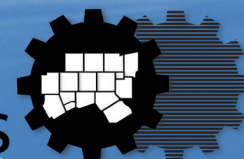
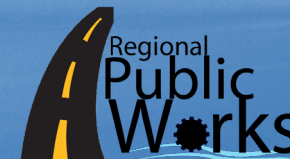


# Public Works Council Meeting

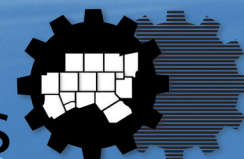
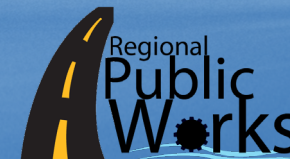
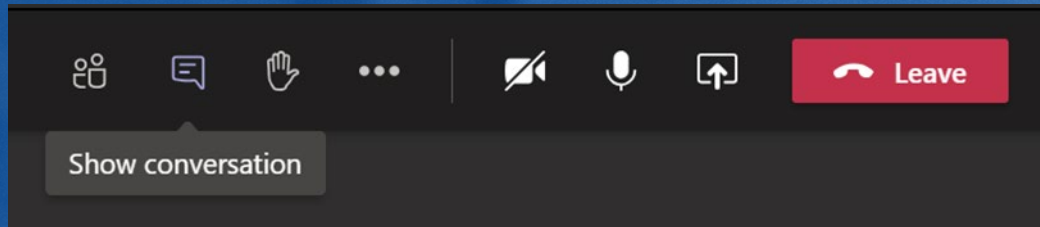
February 16, 2023



North Central Texas  
Council of Governments  
Environment & Development

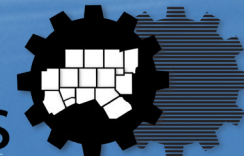
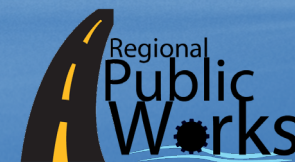
# Welcome and Introductions

- The meeting agenda, presentation and handouts are located on the [Public Works Council webpage](#)
- Please use the chat function to add your name and organization for attendance



North Central Texas  
Council of Governments  
Environment & Development

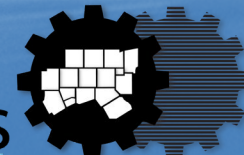
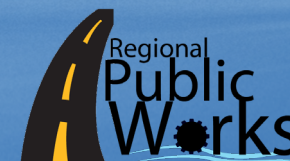
# Action Items



**North Central Texas  
Council of Governments**  
Environment & Development

# Meeting Summary

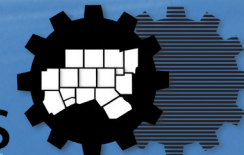
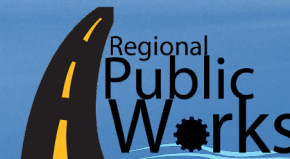
- The November 17<sup>th</sup> Meeting Summary is available for review
  - [https://www.nctcog.org/getmedia/e81140a0-e014-4837-b9f2-78600ce1b590/PWC\\_-\\_DraftSummary\\_2022\\_11-17\\_1.pdf?ext=.pdf](https://www.nctcog.org/getmedia/e81140a0-e014-4837-b9f2-78600ce1b590/PWC_-_DraftSummary_2022_11-17_1.pdf?ext=.pdf)
- The Public Works Council will vote to approve the summary



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Environment & Development

# Standard Drawing Amendments

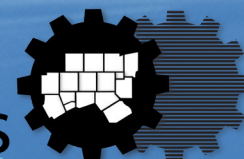
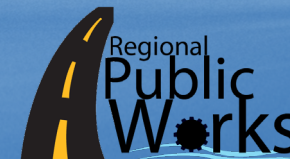
- The Amendments to the Fifth Edition Construction Standards Guidebook are available for review
  - <https://www.nctcog.org/envir/committees/public-works-council>
- The Public Works Council will vote to approve Divisions 2000, 5000 and 6000



North Central Texas  
Council of Governments  
Environment & Development

# Approval of iSWM Consultant Selection

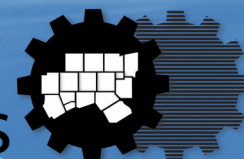
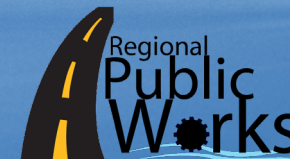
- The previous iSWM contract with Halff Associates concluded April 30<sup>th</sup>, 2022.
- Request for Statement of Qualification (RFSQ # 2022-018) was issued on October 27<sup>th</sup>, 2022, and closed on December 8, 2022.
- NCTCOG received one (1) qualified response by the December 8, 2022, deadline from Halff Associates, Inc.
- The Evaluation Committee selected Halff Associates, Inc. to perform iSWM consultant services.
- The iSWM Implementation Subcommittee confirmed this selection on January 11, 2023.



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# Approval of iSWM Consultant Selection

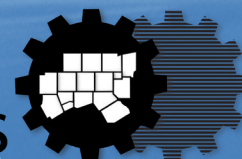
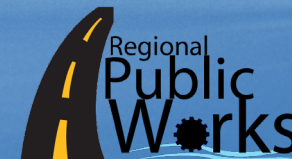
- The Evaluation Committee selected Halff Associates, Inc. to perform iSWM consultant services.
- The iSWM Implementation Subcommittee is requesting approval from the Public Works Council to open a contract with Halff Associates, Inc. to perform consultant services for the Integrated Stormwater Management Program (iSWM), with terms as such:
  - Five (5) year term
  - In an amount not to exceed \$500,000.00 over the five (5) year term



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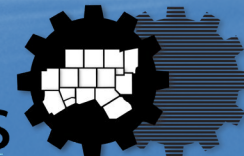
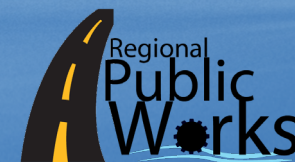
# Approval of iSWM Consultant Selection

- The next steps of this process are:
  - Bringing this item to the NCTCOG Executive Board for approval on February 23, 2023.
  - Contract negotiation with Halff Associates, Inc.



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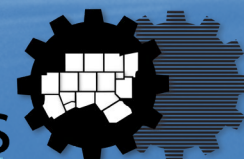
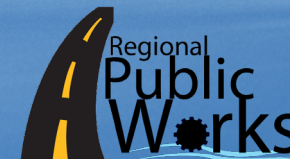
# Discussion Items



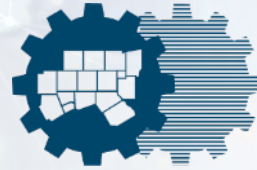
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# Pavement Analysis RFP

- NCTCOG issued an RFP for the TXShare Pavement Analysis Contract
- We are looking for volunteers to evaluate the responses to the RFP
- We would like to have a minimum of 5 volunteers
- Would look at proposals individually then come together as a group during a virtual meeting that NCTCOG will facilitate
- Would need the process complete by March 31st



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# *Situational Awareness Apps: Public Works Opportunity*

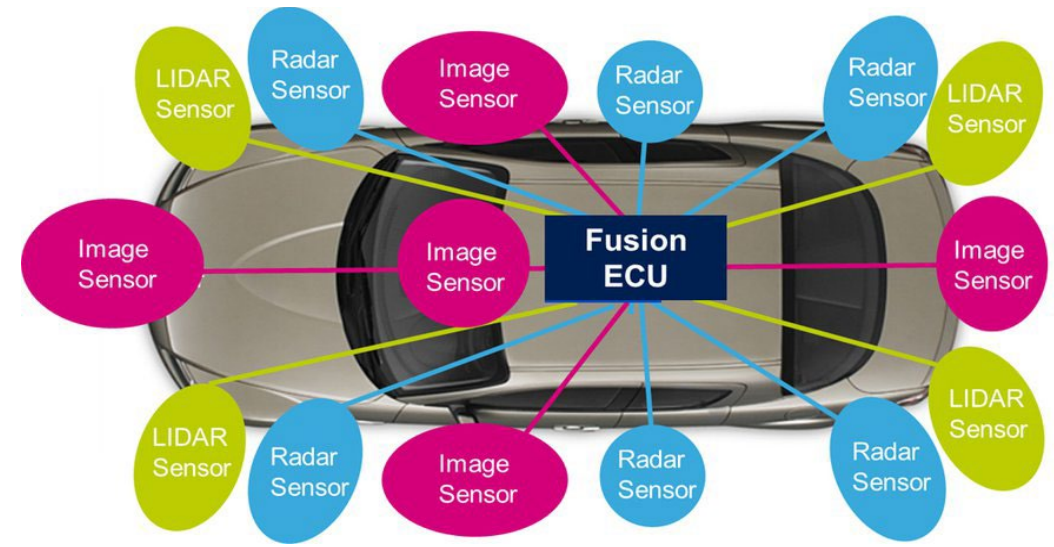
Thomas J. Bamonte  
Technology & Innovation  
NCTCOGTrans

2.16.23

# Vehicles Cameras + Connectivity = Opportunity

**91% of new cars in the U.S. are connected to Cloud via built-in cellular modem.**

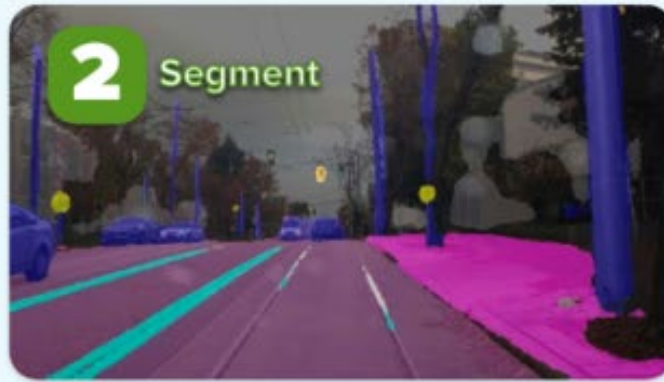
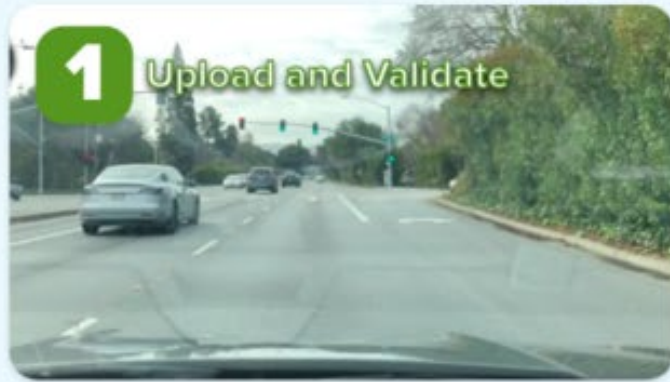
**By 2025, 75 percent of new cars will be equipped with a forward-facing camera. Many have dashcams today.**



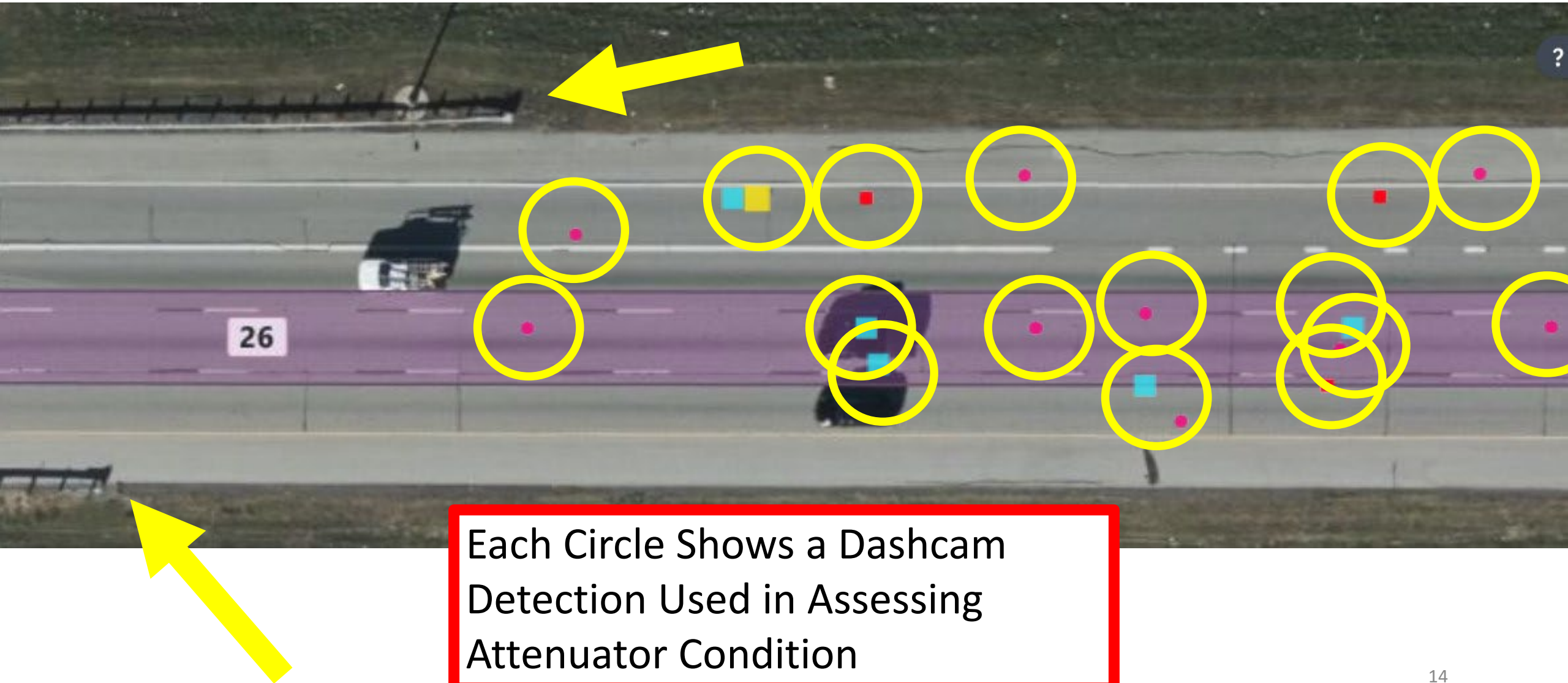
# Situational Awareness Apps

Like Waze, but with cameras/AI rather than human eyes/reporters

1. Use crowdsourced connected vehicle video processed w/AI
2. Provide awareness of wide range of roadway conditions
3. No special field equipment needed




# Rich Dataset



Sample of one of the views,  
showing the attenuators





# Sample Public Works Detections

Go to [www.menti.com](https://www.menti.com) and use code 7768 6515



Search for locations

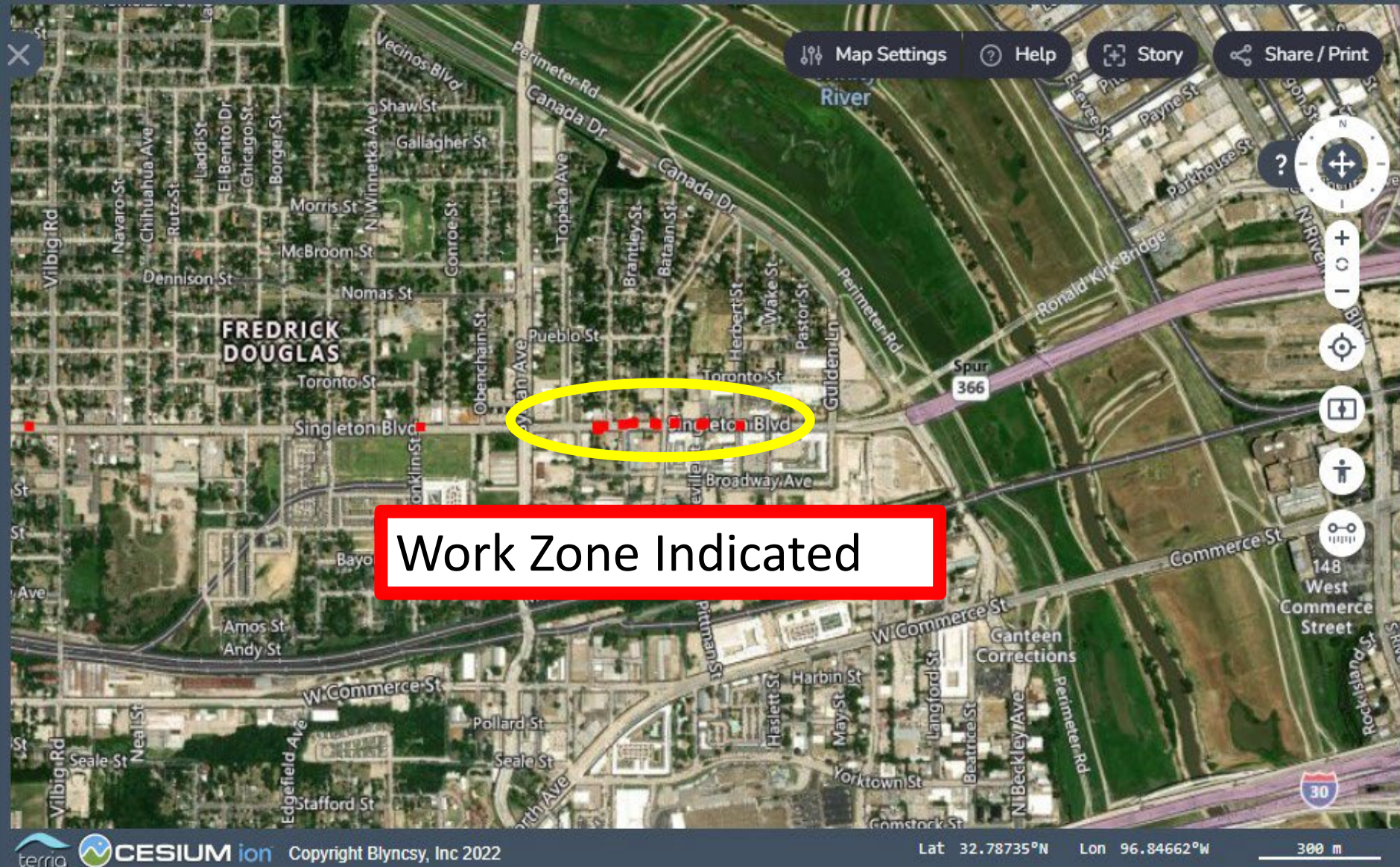
Explore map data

Upload

DATA SETS (1)

Remove All

August Construction Barrels (8/7/2022)



Thumbnail view of  
work zone and  
background info.

Map Settings Help Story Share / Print

Feature Information

August Construction Barrels (8/7/2022) - Site Data

Date: 5:40 PM, 07/18/2022 UTC Download this Table

+ Additional Information +

August Construction Barrels (8/7/2022) - Site Data

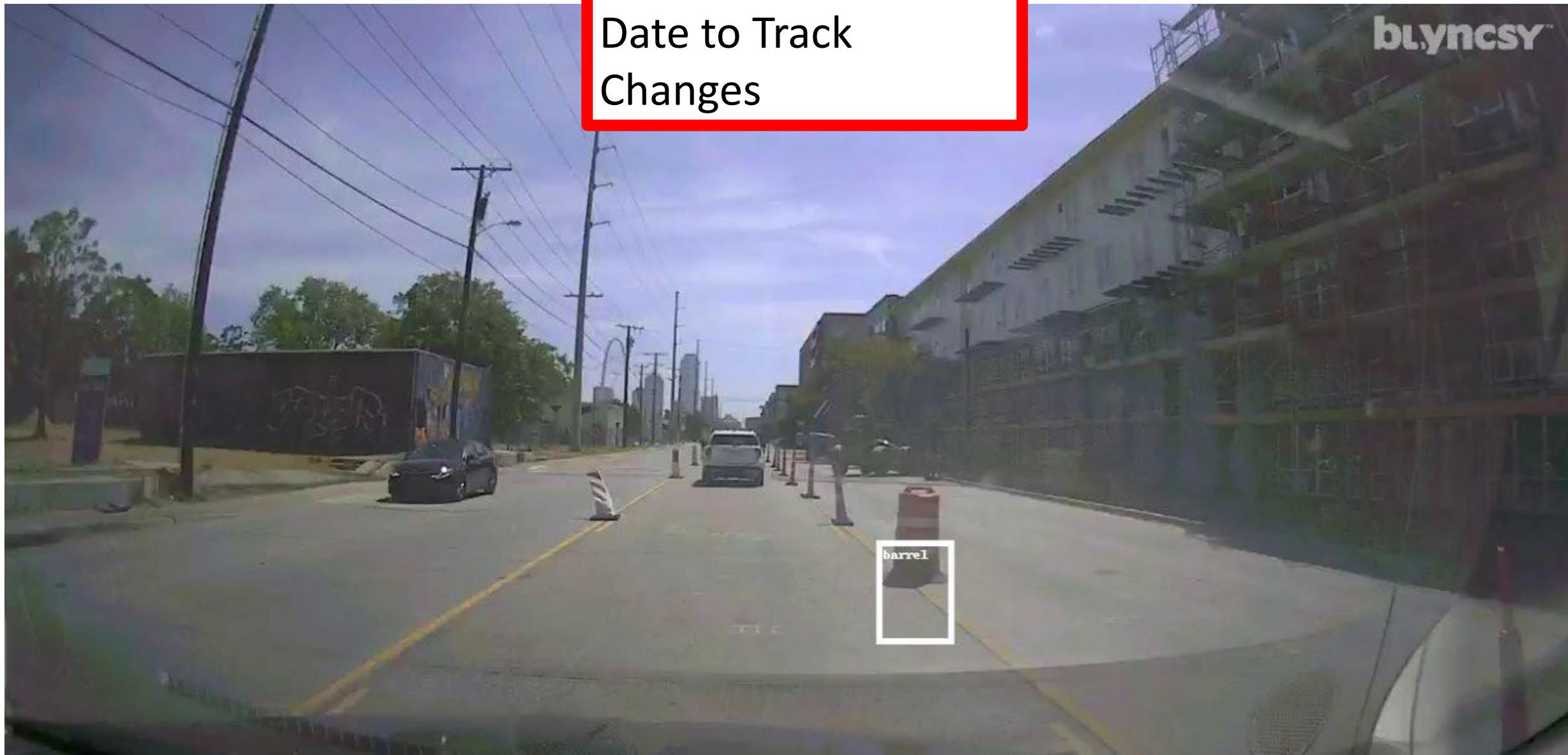
August Construction Barrels (8/7/2022) - Site Data

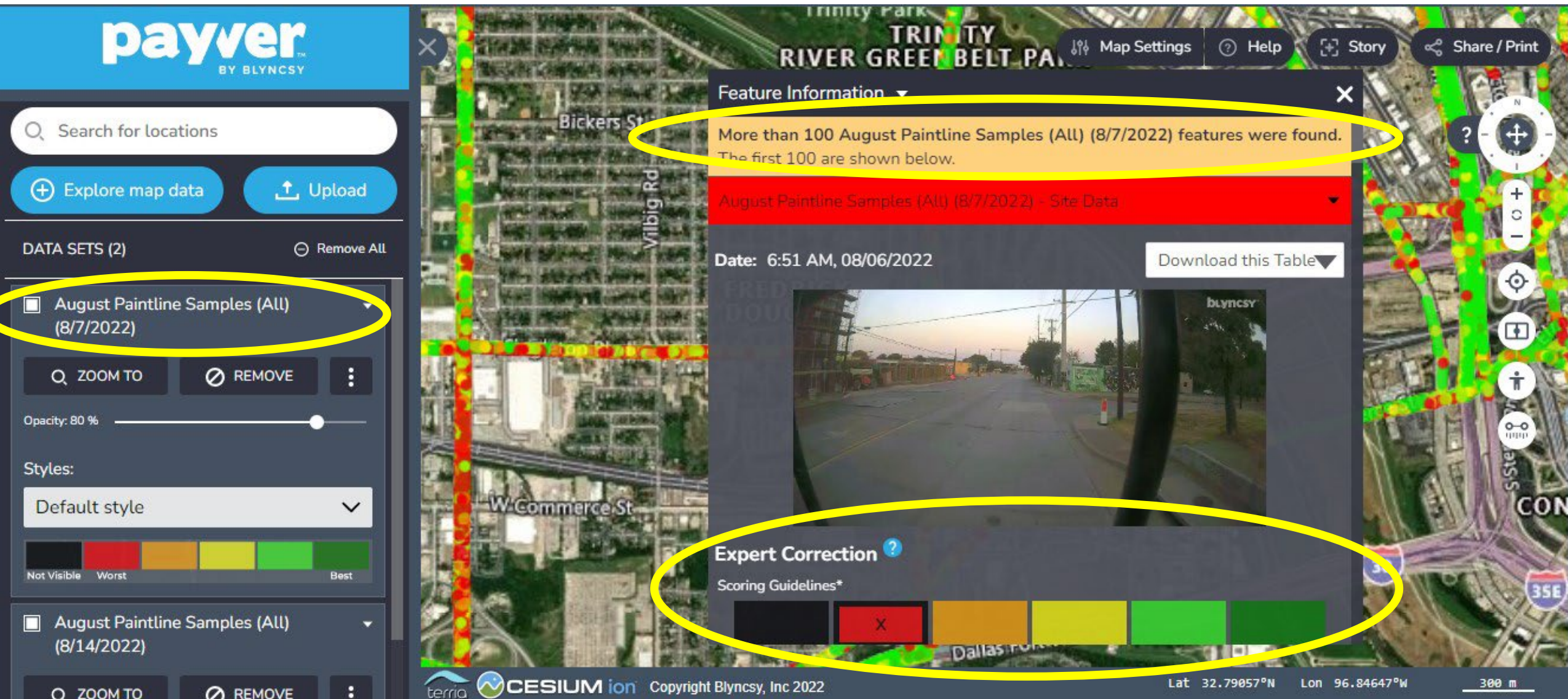
Lat / Lon 41.88586°S, 18.21314°W

terria CESIUM ion Copyright Blynscy, Inc 2022



## View From Different Date to Track Changes





Roadway Striping Quality Scored



Zoom Shows Striping  
Condition

# Crosswalk Quality Analysis

**payver**  
BY BLYNC SY

Search for locations

Explore map data Upload

DATA SETS (1) Remove All

☒ August Crosswalk Scores

ZOOM TO REMOVE

Opacity: 80 %

Styles:

Default style

No Data

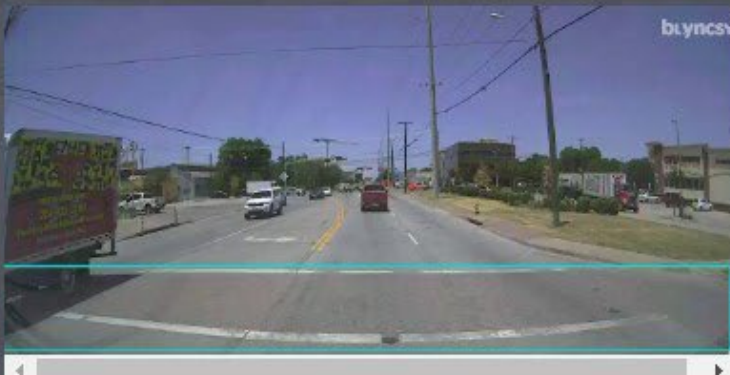
- Good: 0-1
- Score of 1 - 1.5
- Score of 1.5 - 2
- Score of 2-3
- Score of 3-4

Map Settings Help Story Share / Print

Feature Information

August Crosswalk Scores - Site Data

Date: 4:09 PM, 09/06/2022 UTC Download this Table



+ Additional Information +

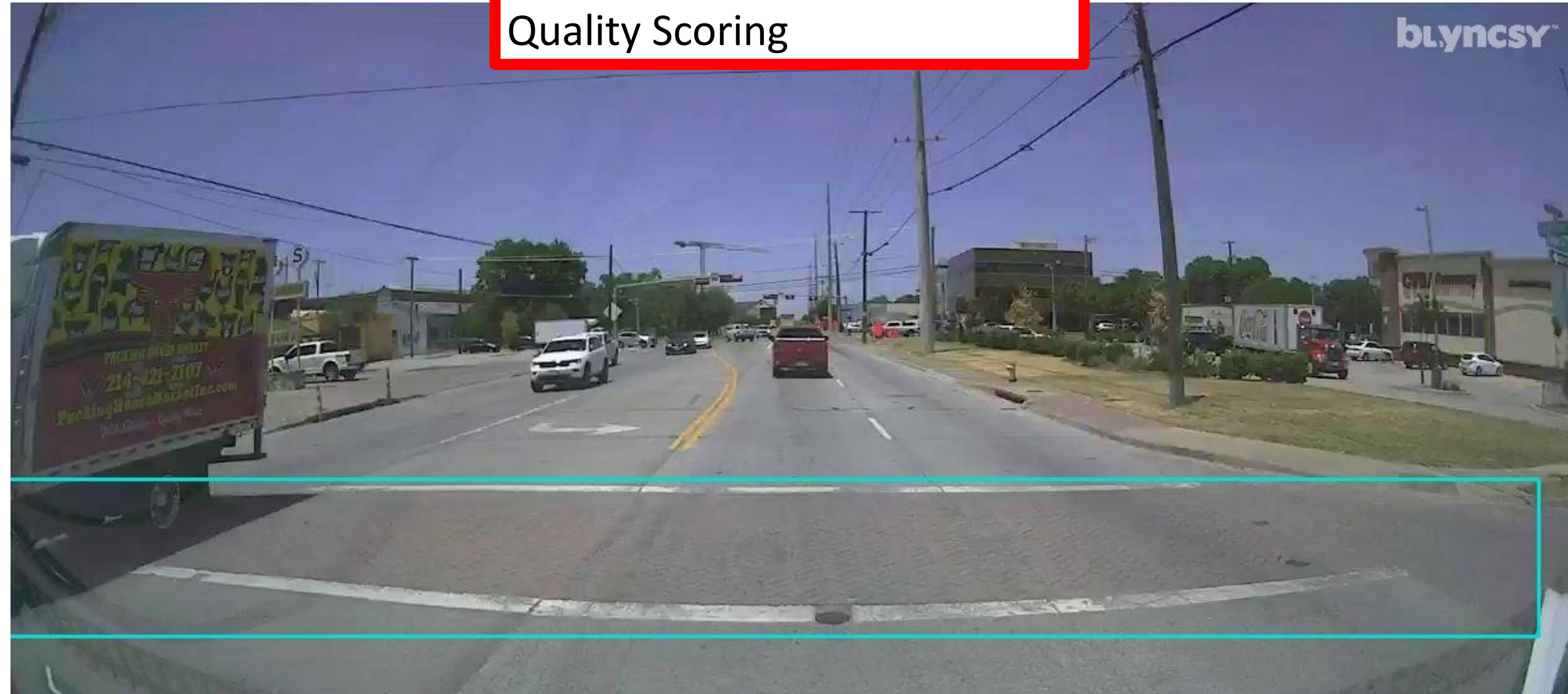
Lat / Lon 85.12179°S, 99.47637°W

terria CESIUM ion Copyright Blyncsy, Inc 2022

Lat 32.78231°N Lon 96.83538°W 100 m

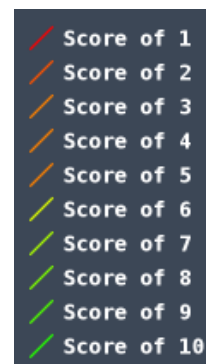
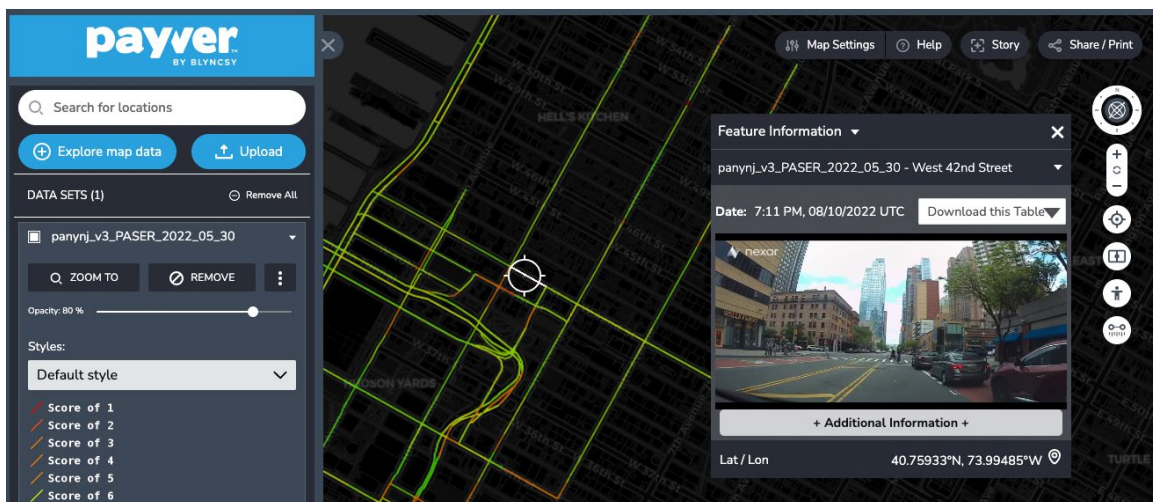
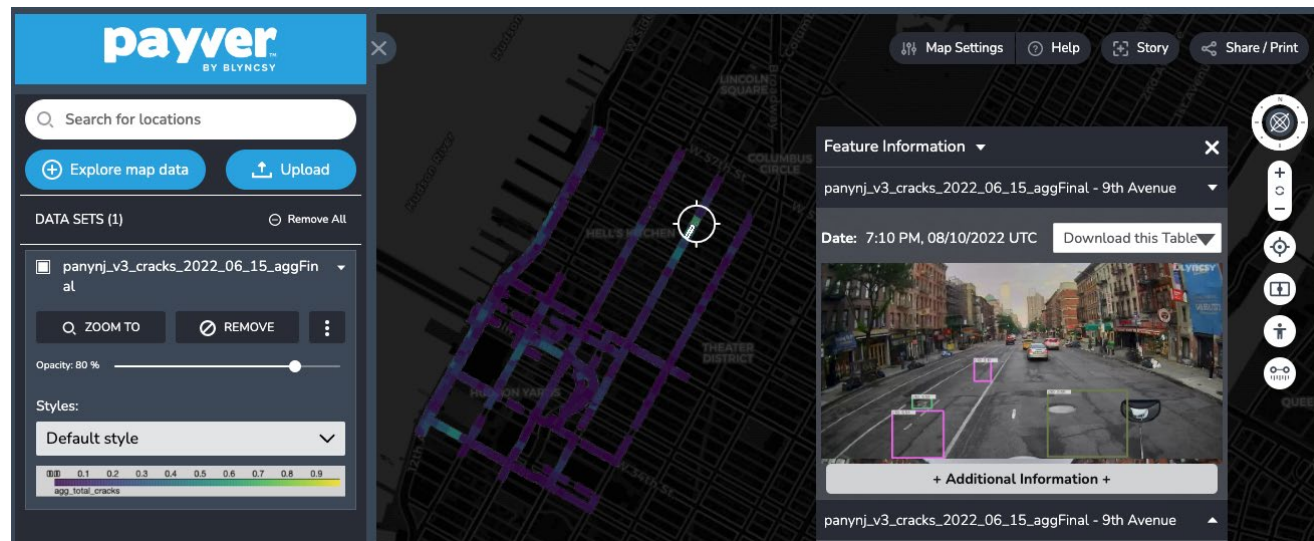
## Zoom in to Confirm Crosswalk Quality Scoring

blynCSY™



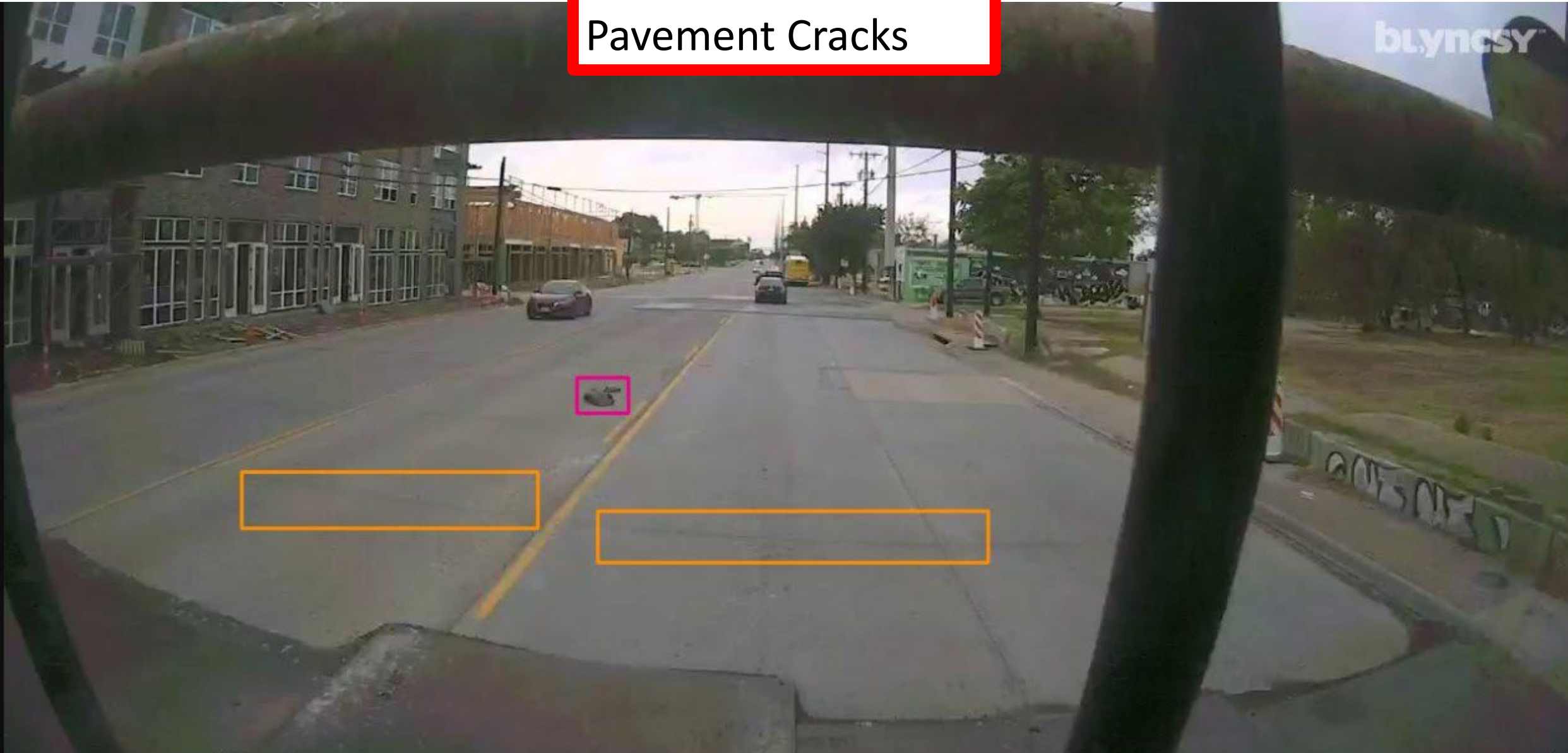
# Pavement Condition

**Cracking** - Detects cracks and potholes with a probability of accuracy including estimate of size.



**PASER** - Remote Pavement Surface Evaluation and Rating.

Zoom To See  
Pavement Cracks



payver  
BY BLYNCSY

Search for locations

Explore map data

Upload

DATA SETS (1)

Remove All

August Streetlights

ZOOM TO

REMOVE

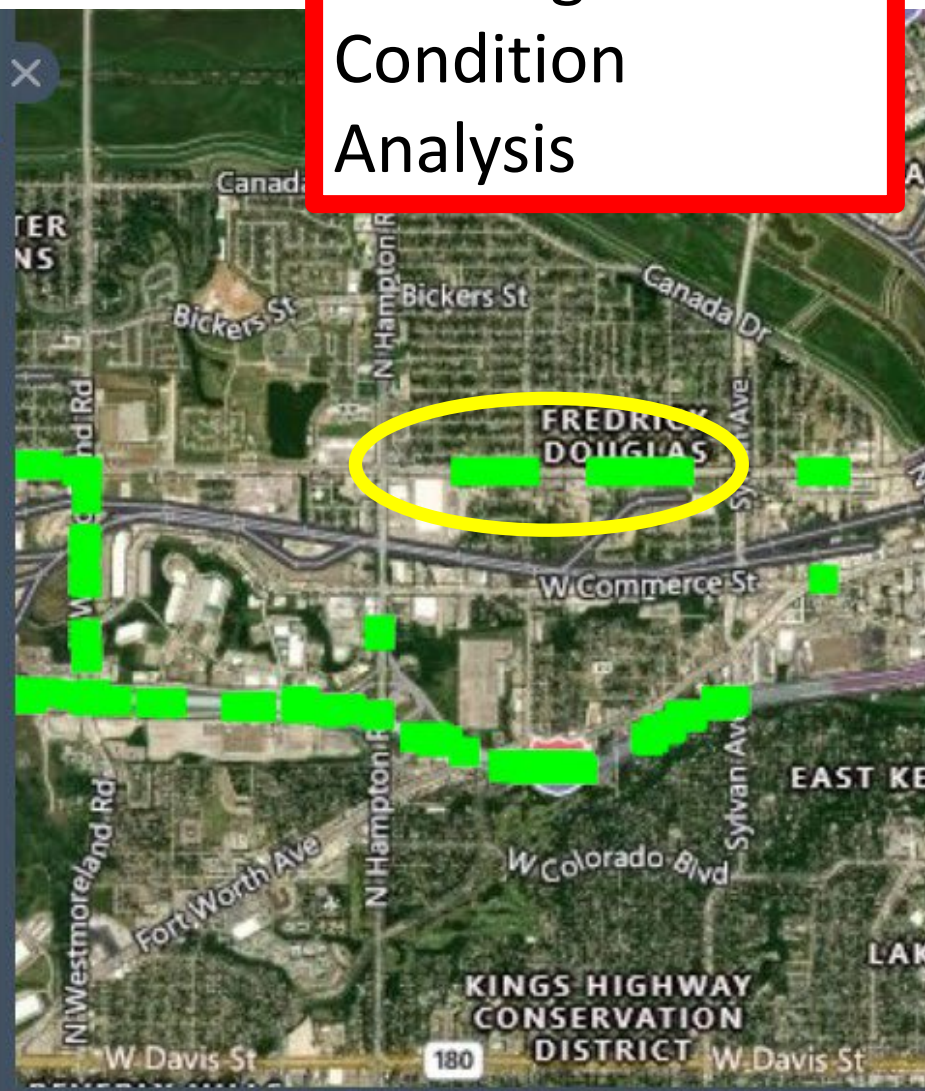
Opacity: 100 %

Styles:

Default style

Light On

Light off



# Streetlight Condition Analysis

Map Settings Help Story Share / Print

Feature Information

August Streetlights - Site Data

Date: 3:27 AM, 07/03/2022 Download this Table

+ Additional Information +

Lat / Lon 86.44582°S, 113.27275°W

Zoom Identifies Missing  
Street Lighting



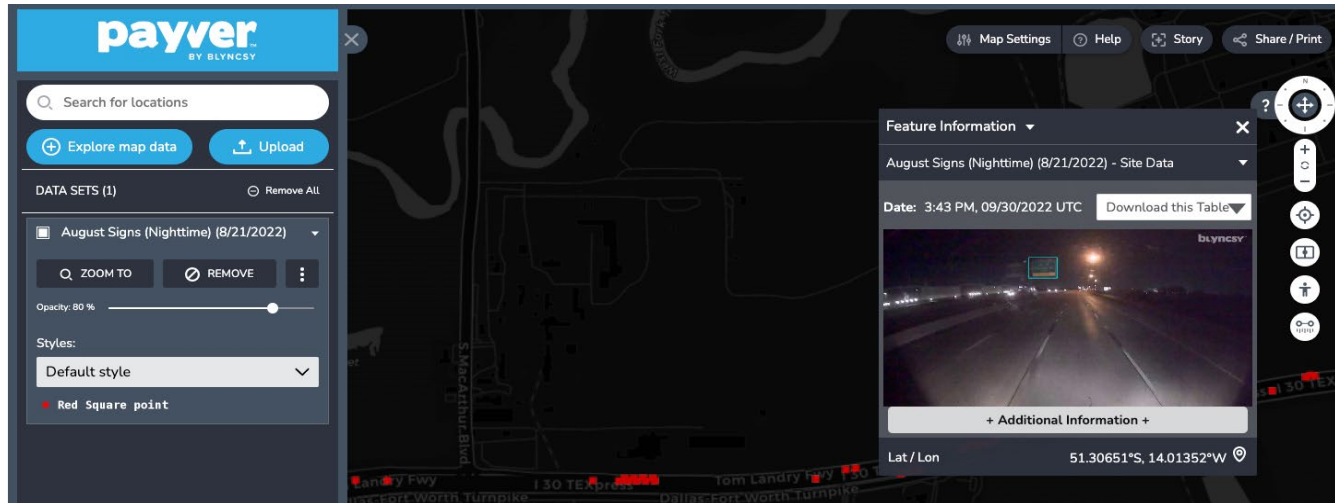
blynCSY

# Signs

**Sign Detection** - Locate and record sign type

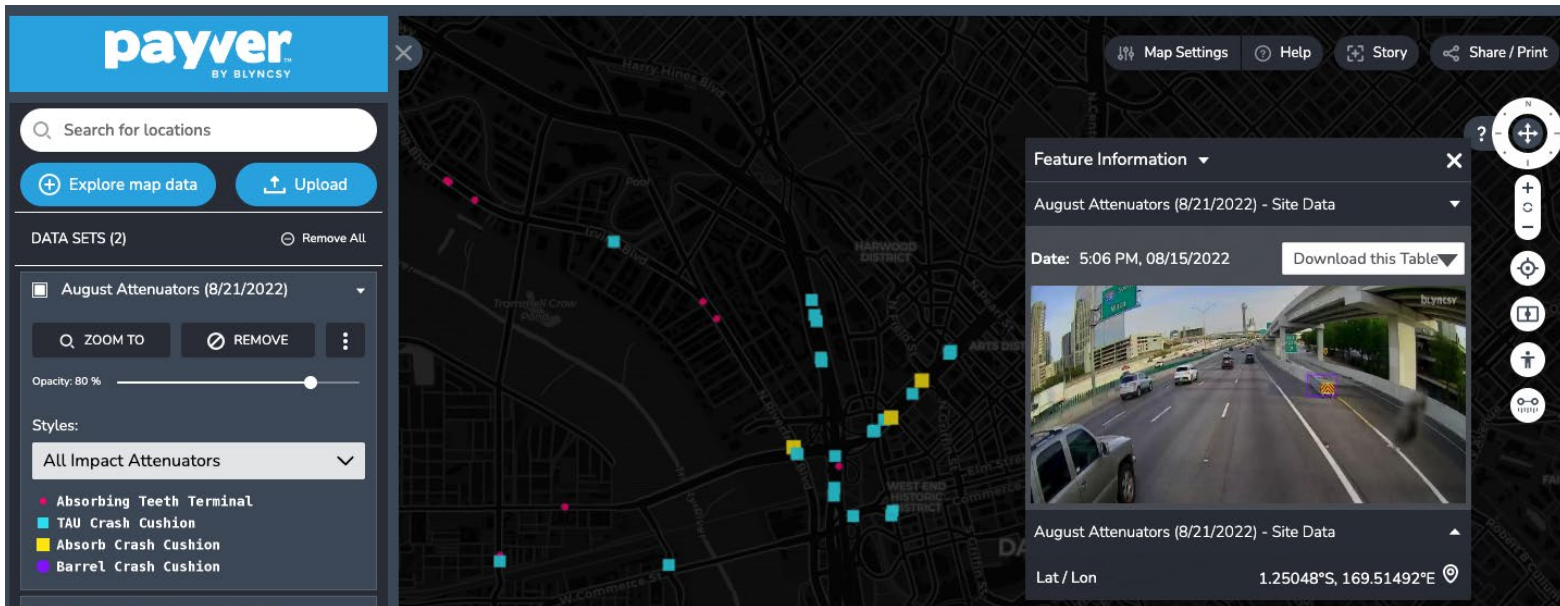
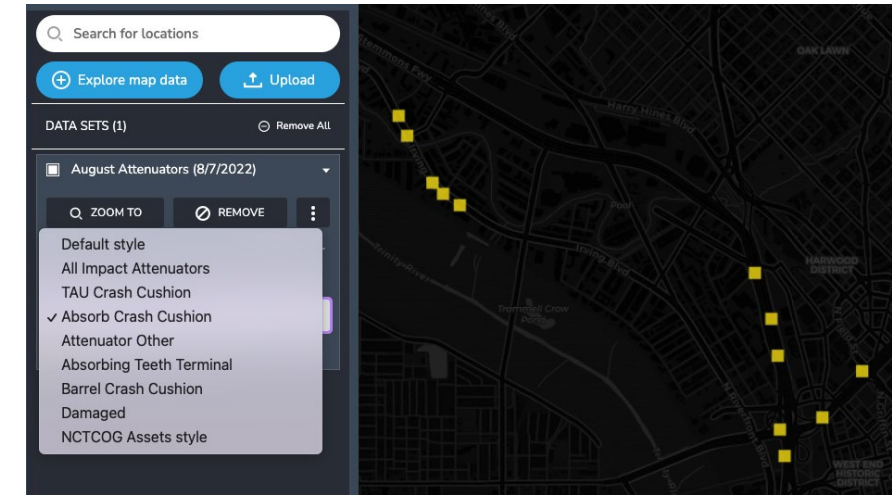
**Sign Reflectivity** - Using only night time imagery, signs graded on general reflectivity/luminosity.

**Sign Damage** – Identify/report damaged signs



# Impact Attenuators

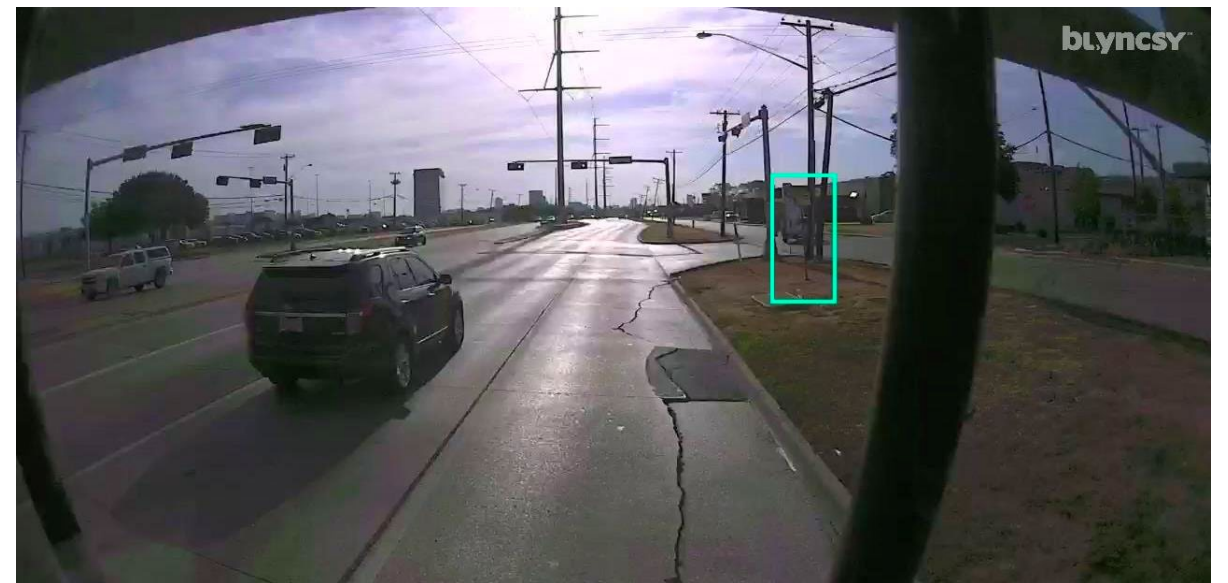
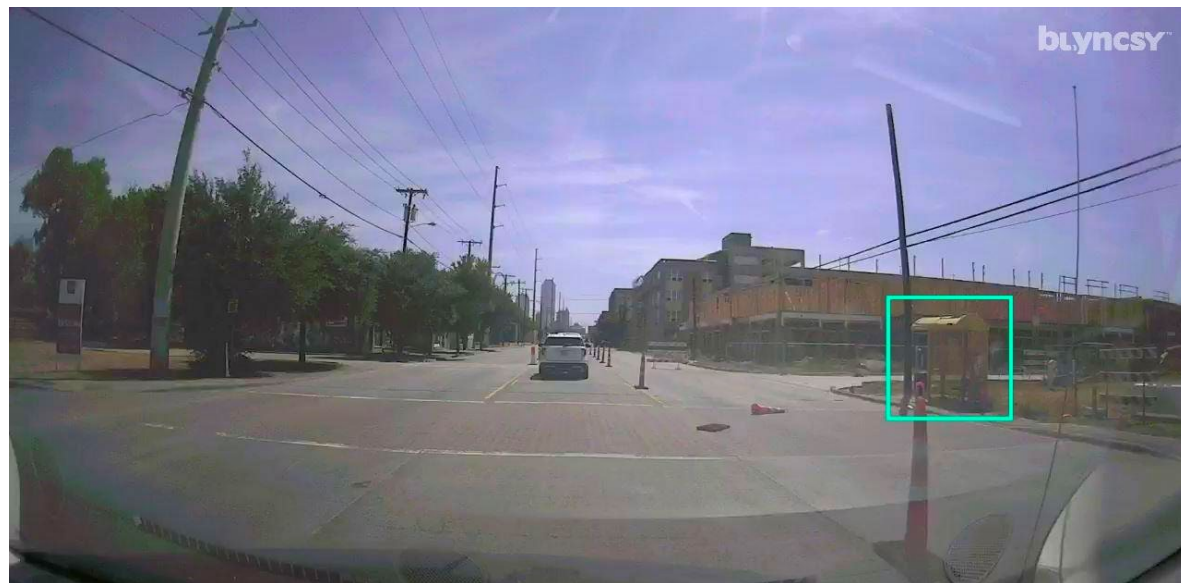
Automated detection and notifications of damaged attenuators.



# Bus Stops and Roadway Fixtures

Detect bus stop damage, graffiti, night lights working, and trash build up.

Overlay crack and bus stop layers to improve safety for passengers and maintenance of buses



# Statewide Experts: Recommended Annual Situational Awareness App Investment for DFW

Group	Average Amount
ITE	\$12.5M
Public Works	\$21.6M
TxDOT	\$11.75M
Simple Average	\$15.28M
<b>Weighted Average</b>	<b>\$13.57M</b>

Recommended  
Annual Investment  
~200 Respondents

# Experts Use Case Review (0-4 scale)

Use Case	ITE	Public Works	TxDOT	Average
Attenuators	2.79	2.52	3.38	2.90
Bus stops/furniture	1.83	2.45	2.31	2.20
Crosswalks	2.72	3.05	3.32	3.03
Lane Striping	3.0	3.24	3.31	3.18
<b>Pavement Condition</b>	<b>3.27</b>	<b>3.74</b>	<b>3.4</b>	<b>3.47</b>
<b>Signs</b>	<b>2.98</b>	<b>3.24</b>	<b>3.66</b>	<b>3.29</b>
<b>Streetlights</b>	<b>2.9</b>	<b>3.28</b>	<b>3.36</b>	<b>3.29</b>
<b>Work Zones</b>	<b>3.21</b>	<b>3.41</b>	<b>3.2</b>	<b>3.27</b>

Use case rankings; ~200 respondents

# Payver Detection Menu

## Use Case Examples

### Roadway detections

- Striping
- Striping Visibility
- Pavement Condition/Paser
- Pavement Distress
- Road Smoothness
- Pot Hole
- Curb detection
- Road inventory
- Sidewalk inventory
- Bike Lane Striping
- Crosswalk striping
- Ped Crossing Striping
- Culvert detection
- Continuous Sidewalk
- Snow road visibility
- Curb/gutter presence
- Raised Pavement Marker
- Missing RPMs
- Tree down on road

### Impact Attenuator

- Location
- Damage

### Construction Zones

- Barrel/ Vertical/ Cones
- Arrow/ Message boards
- Triangle/ Diamond Signs
- MOT(traffic control) vs Plan
- Barricades

### Signs

- Stop Sign
- Yield Sign
- Construction Sign
- Stop Sign
- Construction Sign
- MUTCD Sign Library
- Non- Department Sign in ROW
- Ped Crossing Sign
- Ped Crossing Sign Damage

### Guardrail

- Guardrail presence
- Guardrail damage
- Guardrail size est
- Cable barrier damage

### Sign/Lighting

- Streetlight out night
- Streetlight on day
- Signal head out

### Vegetation

- Vegetation Encroachment
- Grass height est
- Power Line
- Vegetation encroaching Power Line

### Debris

- Debris by size
- Animal carcass
- Debris in lane
- Trash bag (orange/white)

### Other

- Right of way encroachment
- Standing water
- Fire Hydrant
- Bridge Weight limit signs
- High Res Satellite Imagery on Demand
- Bus Stops

# Contact

Thomas Bamonte

Senior Program Manager

Transportation Technology & Innovation

North Central Texas Council of Governments

[tbamonte@nctcog.org](mailto:tbamonte@nctcog.org)

469-600-0524

Twitter: [@TomBamonte](https://twitter.com/TomBamonte)

# Commercial Driver License (CDL)

- Jason English, Streets Supervisor with the City of Frisco will discuss how the city gets their employees CDL trained

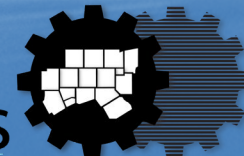
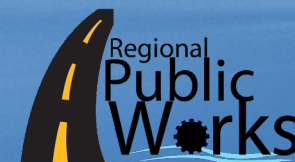


# North Texas Organic Waste Gap Analysis

- Risa Weinberger, Risa Weinberger & Associates
- [risa@risawassoc.com](mailto:risa@risawassoc.com) | 214-729-7071



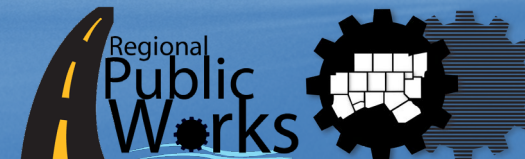
# Information Items



**North Central Texas  
Council of Governments**  
Environment & Development

# FY2023 Public Works Work Program Update

- Addison
- Allen
- Aubrey
- Azle
- Bedford
- Benbrook
- Burleson
- Cedar Hill
- Celina
- Cleburne
- Colleyville
- Coppell
- Corinth
- Collin County
- Crandall
- Dallas County
- Denton County
- Duncanville
- Ellis County
- Euless
- Ferris
- Forney
- Fort Worth
- Garland
- Grand Prairie
- Grapevine
- Haltom City
- Highland Village
- Hudson Oaks
- Hurst
- Hutchins
- Johnson County
- Joshua
- Kaufman County
- Keller
- Kennedale
- Lewisville
- Little Elm
- Mansfield
- McKinney
- Mesquite
- Murphy
- Navarro County
- New Fairview
- Northlake
- North Richland Hills
- Plano
- Ponder
- Richardson
- Rockwell
- Rowlett
- Seagoville



**North Central Texas  
Council of Governments  
Environment & Development**

# FY2023 Public Works Work Program Update

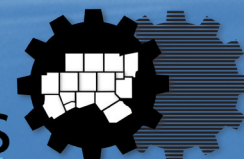
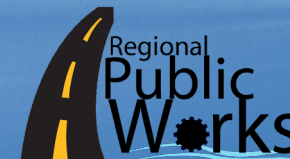
**\$334,699 OUT OF \$360,000 RECEIVED (93% OF BUDGET)**

- Tarrant County
- Terrell
- University Park
- Watauga
- Waxahachie
- Weatherford
- Westlake
- White Settlement
- Wilmer
- Wylie

## Donations

- TexasBit

Thank you to our cost-sharing members! The Public Works Work Program would not be possible without your contributions!



North Central Texas  
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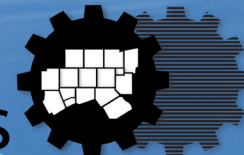
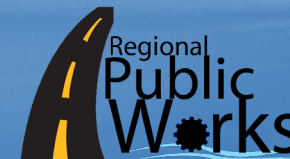
# Public Works Roundup

- Save the Date!
  - Friday, September 29, 2023
  - Grapevine Convention Center
- Provide input on presentation topics
- Past topics



# Asphalt Inspection Training

- Interest indicated by members at the November 2022 PWC meeting
- NCTCOG researched options offered by Texas Asphalt Pavement Association
- Please take the survey to further identify interest and preferences



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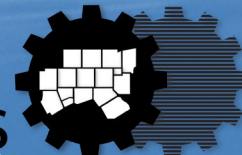
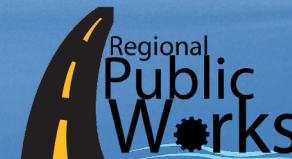
# New Inspectors Workshop

- Interest indicated by members at the November 2022 PWC meeting
- Need a willing senior-level inspector to lead
  - Half-day workshop in classroom and field
  - Cover topics such as:
    - Contracts vs development
    - Contract book
    - Plan review
    - Utility



# Public Works Workforce Initiative

- Ideas discussed at the November PWC meeting
- NCTCOG has continued to research ideas
- Met with Associated General Contractor representatives
- Discussed with [NCTCOG Transportation Department's Aviation Group](#)

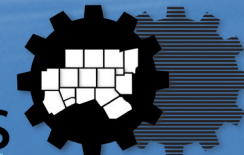
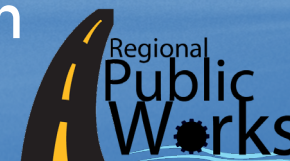


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# Standard Drawings Subcommittee

- Next Meeting: TBD
- Finishing up remaining edits to Construction Standards amendments
  - Division 4000 and any remaining questions from other Divisions

Environment & Development Committees Information  
Available at [nctcog.org/envir/committees](http://nctcog.org/envir/committees)

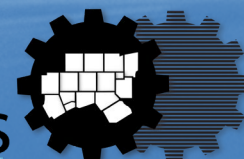
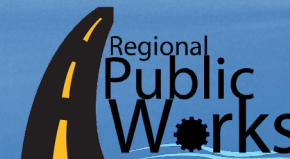


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# Sustainable Public Rights of Way (SPROW) Subcommittee

- Next Meeting: February 21, 9:30am via Microsoft Teams
  - More Information Available [online](#)
- Continuing discussion of the Complete Streets Chapter of the Best Management Practices Guidebook

Environment & Development Committees Information  
Available at [nctcog.org/envir/committees](https://nctcog.org/envir/committees)

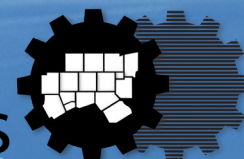
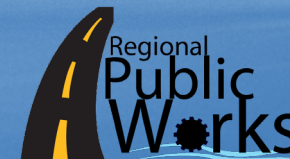


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# Integrated Stormwater Management (iSWM) Subcommittee

- Next Meeting: April 12, 2023, 1:30 pm via Microsoft Teams
- More information available [online](#).
- FY23 Program Task Updates
  - iSWM Manual Revisions

Environment & Development Committees Information  
Available at [nctcog.org/envir/committees](https://nctcog.org/envir/committees)



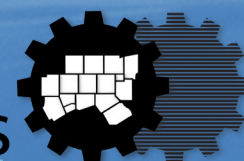
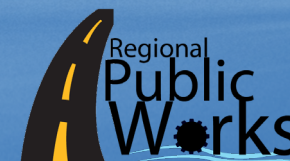
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# Integrated Stormwater Management (iSWM) Subcommittee

- EWRI LID Conference, August 2023, Oklahoma City, OK
  - NCTCOG & Halff Associates abstract on iSWM has been accepted for presentation
- StormCon, August 2023, Dallas, TX
  - NCTCOG, Halff Associates, & City of Dallas have submitted an abstract to present on the iSWM Program

For more information on iSWM, please contact Casey Cannon at (817) 608-2323 or [ccannon@nctcog.org](mailto:ccannon@nctcog.org).

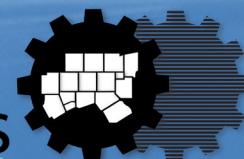
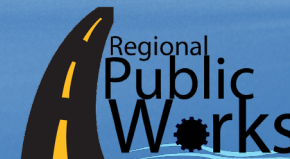
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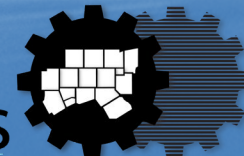
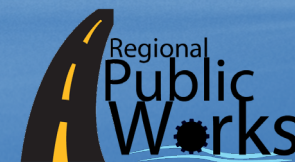
# Upcoming Events, Conferences, and Opportunities

- EWRI International Low Impact Development Conference
  - Oklahoma City, OK
  - August 6-9, 2023
  - More information available [online](#).
- StormCon 2023
  - Dallas, TX
  - August 28-30, 2023
  - More information available [online](#).



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# Other Program Activities



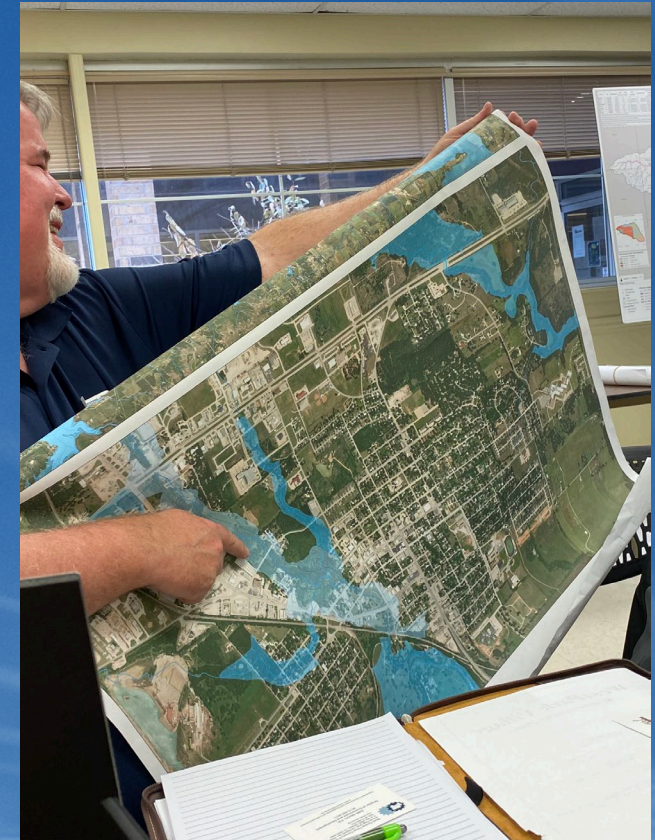
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# Cooperative Technical Partnership Program / Community Rating System Users Group

CTP Discovery Meeting for Upper West Fork Trinity –  
January 17 in Bridgeport. Final webinar – June

## Next CRS Users Group Meeting

- February 24, 2023, 9:30 – 11:30 a.m., NCTCOG offices
- [Please RSVP](#)
- [Agenda available online](#)
- Expected to be approved for 2 CECs by TFMA



# Public Works Emergency Response Team (PWERT)



# Project Overview

## Project One - Vehicle Interdiction Trailers

Rowlett, Richardson, and Carrollton

- Enclosed, bumper-pull trailer
- 21 - Vehicle interdiction devices
- 6 – 6' Type III barricades
- 6 – Sign holders with signs
- Additional equipment may be added
- Provides closure support for three 12' lanes (total 36')

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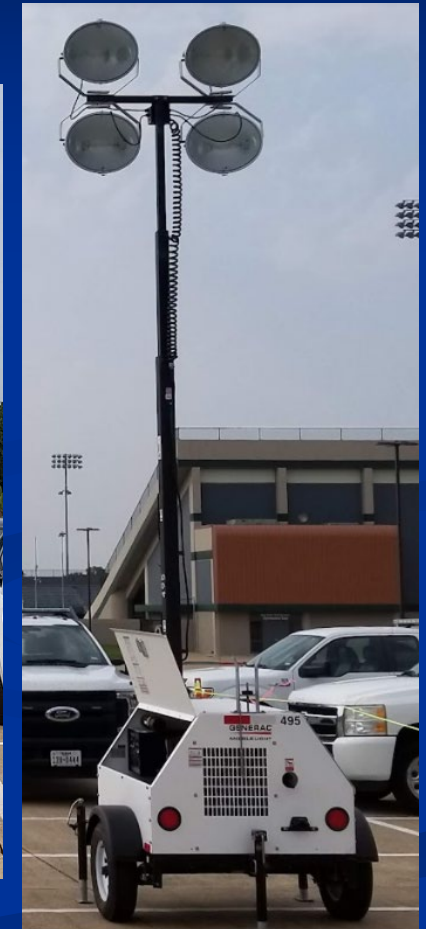
## Project Two - Rowlett Cache Enhancements

Part One

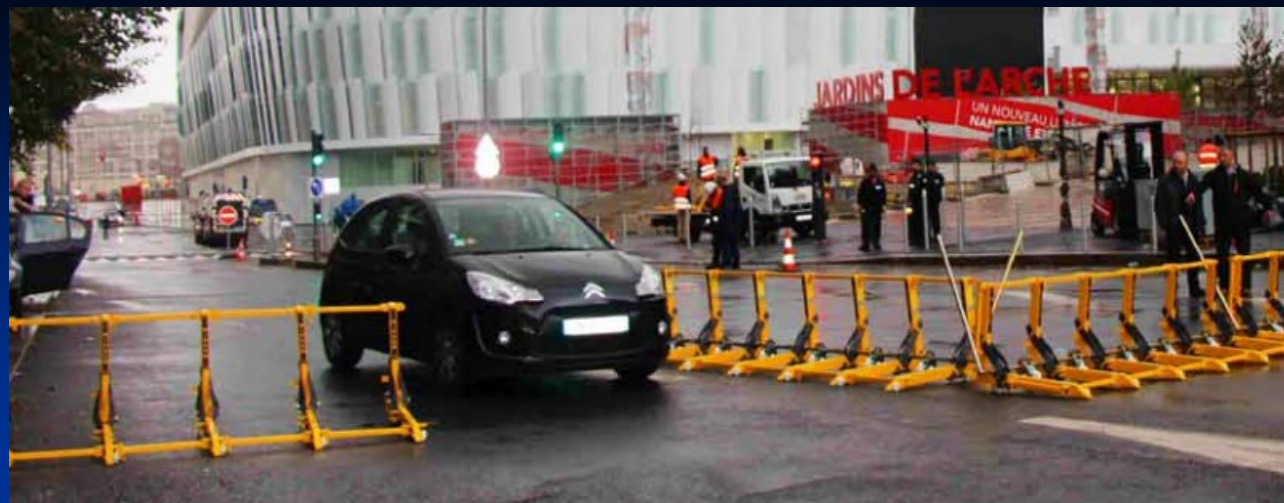
2 - Type I Dynamic Message Boards (DMBs)  
Roanoke and Mesquite

Part Two

2 - Type I Floodlights (portable light towers)  
Roanoke and Mesquite

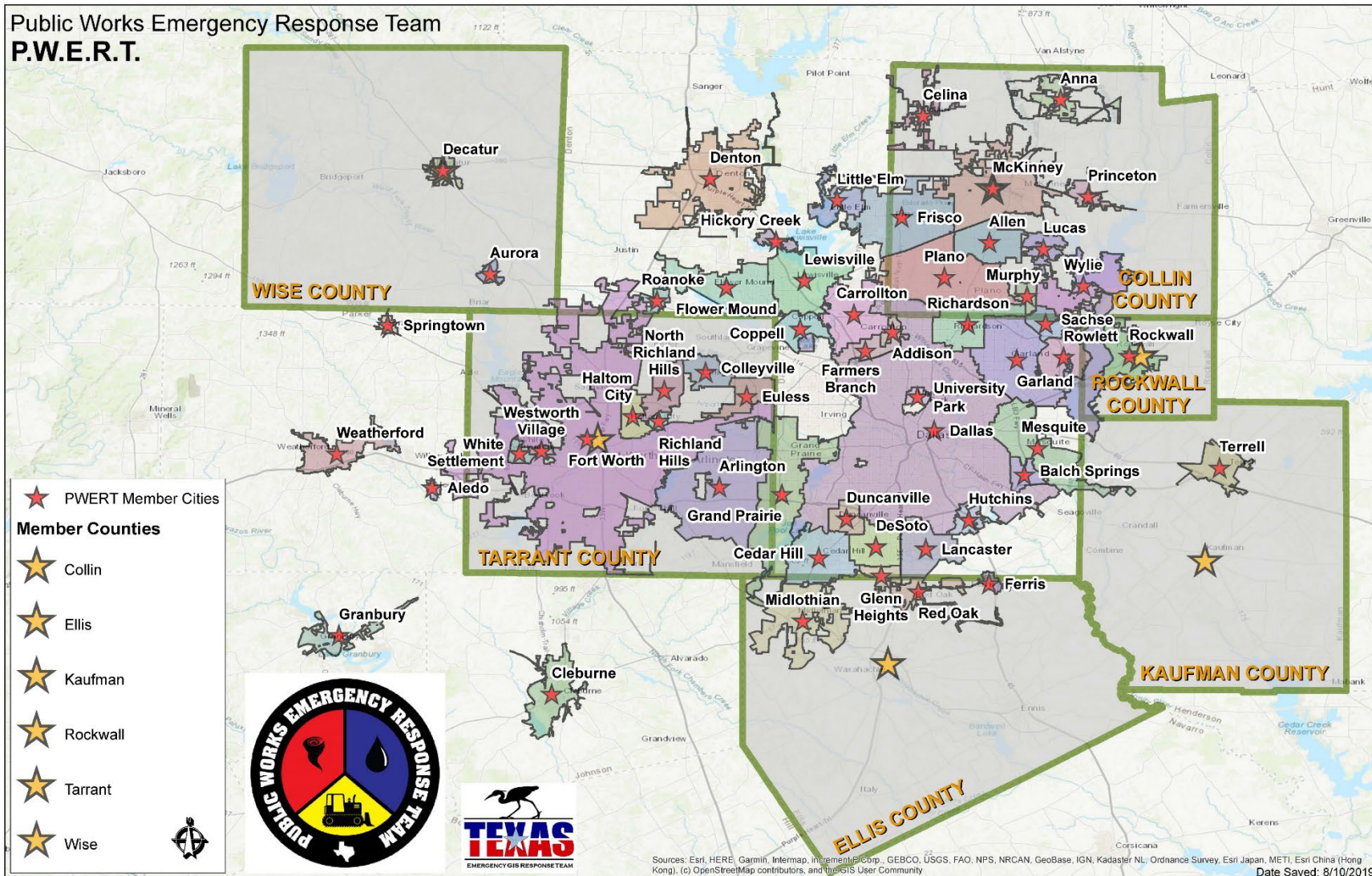






# Regional in Scope

## Public Works Emergency Response Team P.W.E.R.T.



# Regional in Scope

Current Cache Jurisdictions: 22

Cache Jurisdictions with FY23 SHSP: 24

PWERT MAA and PWRT (STAR) requests require cache equipment deployment availability to support member jurisdictions and non-member jurisdictions



# Reasonable Budget

Item	Quantity	Per Unit Cost	Extended Cost
Project One - Vehicle Interdiction Trailer	3	\$60,000	\$180,000
Project Two Part One - Dynamic Message Board	2	\$25,000	\$50,000
Project Two Part Two - Portable Light Tower	2	\$19,000	\$38,000
Total Project Cost			\$268,000

FY20 Award Total - \$97,772.50

FY21 Award Total - \$100,258.32

FY22 Award Total - \$127,690.60

FY23 Request Priority

Option #1 – Two Vehicle Interdiction trailers - \$120,000

Option #2 – One Vehicle Interdiction trailer, one DMB, and one portable light tower - \$104,000



# AMERICAN PUBLIC WORKS ASSOCIATION (APWA) TEXAS CHAPTER — NORTH CENTRAL BRANCH



# UPCOMING LOCAL EVENTS

- **February 21st:** North Central Branch Membership Lunch
  - 11:30am to 1:00pm
  - Cedar Hill Recreation Center
  - Lunch provided with advance \$20 registration (\$25 at-the-door)
  - Event link: <http://nctxbranch.apwa.net/EventDetails/30789>
- **April 28th:** NC Branch Sporting Clay Tournament
  - 7:00am to 2:00pm
  - Alpine Shooting Range, Fort Worth, TX
  - Registration available here: <http://nctxbranch.apwa.net/EventDetails/30673>



# UPCOMING LOCAL EVENTS

- **May 21 – May 27, 2023:** National Public Works Week
- **June 27 – June 29, 2023:** TX-APWA Annual Conference
  - Taking place in: Waco, TX
  - More details will be posted to the website as we near the event:  
<http://texas.apwa.net/EventDetails/30002>



# CONTINUING EDUCATION OPPORTUNITY

- **Public Works Institute of Texas (PWITX)**

Class 5 starts April 19<sup>th</sup>

- Taking place in: Webster, TX
- Limited to 35 participants
- Director-level training for future Public Works leaders
- 4 Sessions, three classes per session, 90+ total contact hours.

<http://pwitx.apwa.net/EventDetails/18173>



# MORE INFORMATION

<https://www.apwa.net/>

<http://nctxbranch.apwa.net/>

Jay VonAhsen, P.E.  
TX-APWA President ('22-'23)  
[Jay@TXPublicWorks.com](mailto:Jay@TXPublicWorks.com)



NC Branch Website

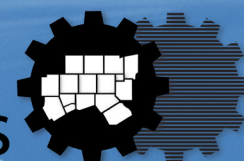
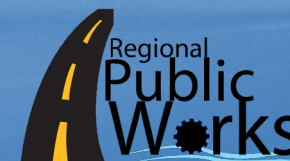


# Future Agenda Items

- Council Members and NCTCOG staff may suggest future agenda items



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# Roundtable Discussion

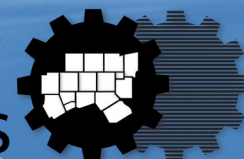
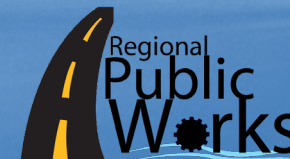


# Next Public Works Council Meeting

- May 18<sup>th</sup>, 2023, 9:30 a.m. – 11:30 a.m. Via Microsoft Teams



Environment & Development Committees Information  
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# Contact & Connect

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817.695.9227



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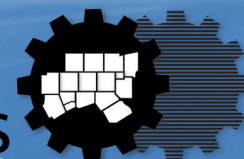
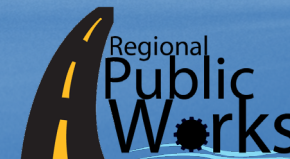
[@nctcogenv](https://www.instagram.com/nctcogenv)



[youtube.com/user/nctcoged](https://youtube.com/user/nctcoged)



[EandD@nctcog.org](mailto:EandD@nctcog.org)



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