

IH 35 DECORATIVE LIGHTING

September 6, 2022



CITY OF WACO

CITY RESOLUTION 2022-386 Adopted June 21, 2022

Agreement with TxDOT to maintain I 35 Frontage Road Decorative Lighting:

- 1) Martin Luther King Jr Boulevard (under construction)
- 2) University Parks Drive (under construction)
- 3) 4th & 5th Streets (under construction)
- 4) 11 & 12th Streets (under construction)
- 5) Brazos River Bridges (installed 2015)

The IH 35 decorative lighting needs to be maintained by the City to ensure LED colored lighting systems and globe lighting is work properly.

IH 35 DECORATIVE LIGHTING

IH-35 AESTHETIC LIGHTING PROJECT PROJECT DEVELOPMENT AND STAKEHOLDER ENGAGEMENT

- **JAN 2017** – INITIAL CONVERSATION WITH WACO WALKS
- **MARCH 30 INFORMATIONAL MTG @** EARL-NAPIER-KINNARD HOUSE
- **JUNE 6 DESIGN JAM @** LULA JANE'S
- **JUNE 30 STAKEHOLDER MTG @** SOUTH WACO COMMUNITY CENTER
- 3 CITY OF WACO/TXDOT PLANNING MEETINGS



"We want an inviting gateway and connection between Baylor and downtown that clearly values bike/ped movement, not just cars"

IH 35 DECORATIVE LIGHTING

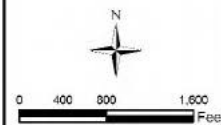
IH-35 AESTHETIC LIGHTING PROJECT PROPOSED PROJECT AREAS

TIF Application P6 Location Map

Downtown Waco
IH-35 Aesthetic Lighting

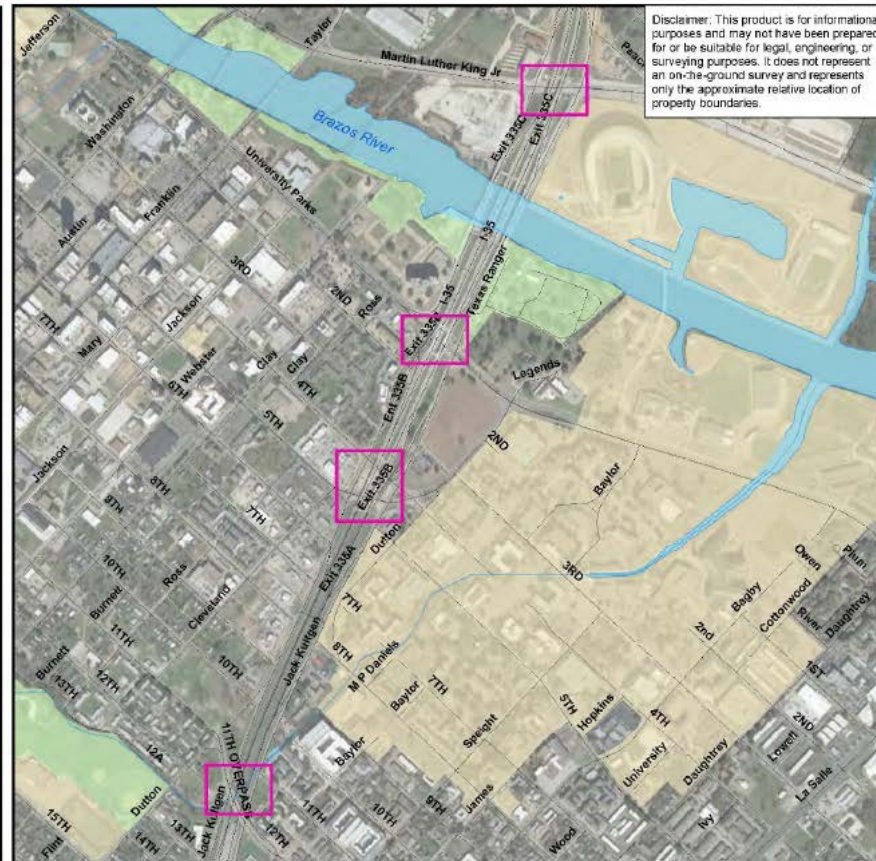
Legend

- Park
- School
- Project Areas



10/11/2017

 CITY OF WACO
PLANNING SERVICES



IH 35 DECORATIVE LIGHTING

IH-35 AESTHETIC LIGHTING PROJECT EXISTING CONDITIONS



IH-35 UNDERPASS AREAS ARE “UGLY,”
“FORBIDDING”, AND “UNFRIENDLY”

OTHER SIDE FEELS A “MILLION MILES
AWAY”

STAKEHOLDERS REQUESTED UPGRADES
THAT MAKE THE AREA “INVITING,”
REMOVES “**MENTAL BARRIERS**” AND
“**CONNECTS**” BAYLOR TO
DOWNTOWN, AND TO “**SHOWCASE**”
DOWNTOWN WACO.



IH 35 DECORATIVE LIGHTING

IH-35 AESTHETIC LIGHTING PROJECT COLUMN LIGHTING

- 4' LED LINEAR LIGHTS (COLOR)
- ILLUMINATE INDIVIDUAL COLUMNS
- COLUMNS ARE 4' TO 6' WIDE
- DOWNWARD FACING
- INCLUDES CONTROL BOX TO PROGRAM COLORS
- POSSIBLE TO COORDINATE WITH BRAZOS RIVER FRONTAGE ROAD BRIDGES



Multiple Column Bent – matches the “Art Deco” look of the Brazos River (BRG)



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IH-35 AESTHETIC LIGHTING PROJECT COLUMN LIGHTING - EXAMPLE CONCEPTS



Light Channels Tourist Attraction
E Commerce Street Undercrossing below IH-37, downtown San Antonio

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IH-35 AESTHETIC LIGHTING PROJECT 4TH/5TH ST: GLOBE LIGHTING

- PROVIDES DISTINCT GATEWAY IDENTITY
- COMMUNITY ART PROJECT LED BY CREATIVE WACO
- MULTIPLE GLOBES
- APPROX. 4' DIAMETER
- WHITE LED LIGHTS
- INCLUDES EVERYTHING BUT THE DESIGN
- SIMILAR TO SAN ANTONIO PROJECT



IH 35 DECORATIVE LIGHTING

IH-35 AESTHETIC LIGHTING PROJECT 4TH/5TH ST: GLOBE LIGHTING

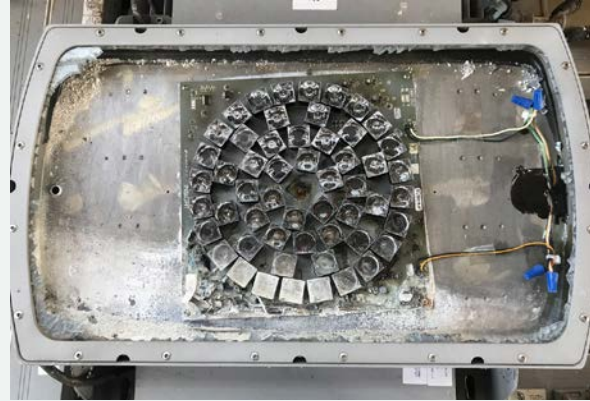
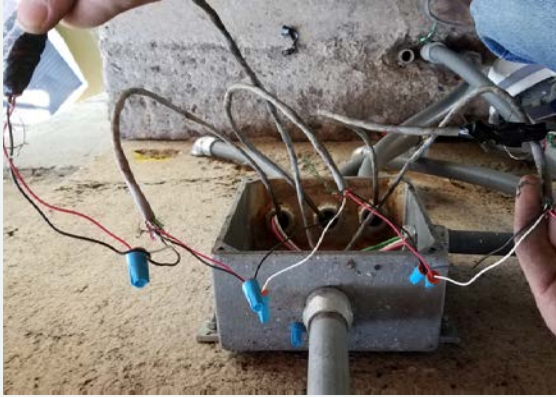


EXISTING INDIRECT LED FLOOD LIGHTING ON BRAZOS BRIDGES



- INSTALLED IN 2015
- 5 YEAR FIXTURE WARRANTY
- TXDOT MAINTAINED
- CURRENTLY ABOUT 50% OF BRIDGE LIGHTING IS NOT WORKING

EXISTING INDIRECT LED FLOOD LIGHTING FAILURES

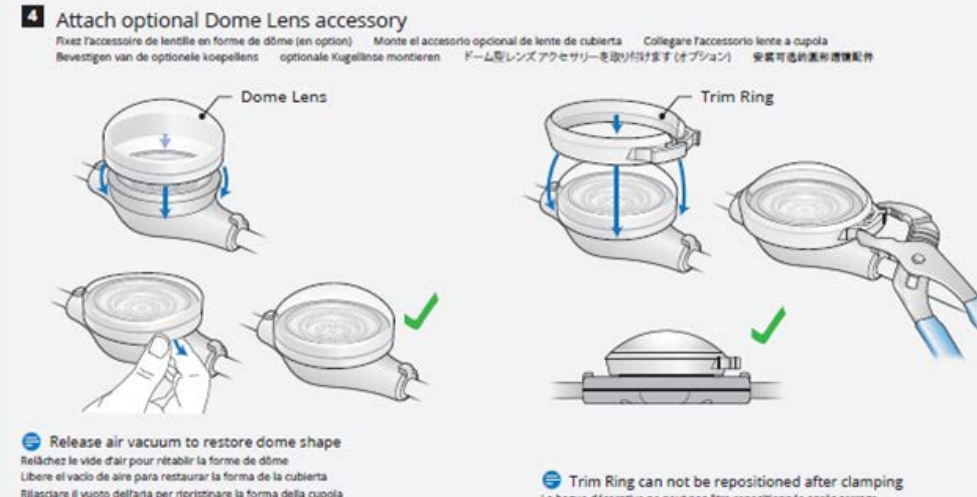


- HIGH POWER FIXTURES OVERHEAT
- WATER IN FIXTURES
- CONTROL CABLE FAILURES, FIXTURES WIRED IN SERIES
- CAN NOT REPLACE ORIGINAL FIXTURES
- NEW FIXTURES NEED NEW MOUNTING BRACKETS
- SIMILAR FIXTURES MAY HAVE THE SAME PROBLEMS



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ALTERNATIVE: LED DIRECT VIEW LIGHTING NODES COLOR KINETICS FLEXELITE RGBW (PHILIPS & SIGNIFY BRAND)



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LED DIRECT VIEW NODES COLOR KINETICS FLEXELITE RGBW (PHILIPS & SIGNIFY BRAND)



ADVANTAGES:

- SMALLER LOW POWER FIXTURES
- LESS HEAT AND MORE RELIABLE
- MORE VISIBLE
- ANIMATED DISPLAY CAPABLE
- INTEGRATED CABLE & CONNECTIONS
- WEATHERPROOF FIXTURES
- EASIER TO MAINTAIN AND REPLACE
- NUMBER OF LEDS UPGRADEABLE
- 5 YEAR WARRANTY
- EASIER TO REPLACE



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EXAMPLES OF DECORATIVE LIGHTING ON BRIDGES



Stone Bridge
Johnstown PA
1.2 Million Dollars



Big 4 Bridge
Louisville KY
2.0 Million Dollars



Hoan Bridge,
Milwaukee WI
4.6 Million Dollars



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LED DIRECT VIEW LIGHTING NODES



**Hoan Bridge,
Milwaukee WI**



CITY OF MILWAUKEE

Hoan Bridge Video

- <https://www.youtube.com/watch?v=1n7cY38ZwuM>



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IH 35 DECORATIVE LIGHTING

- Brazos River Bridges
 - Anticipate TIRZ#1 Request for \$750,000 (FY23 Budget)
 - Design Build for Brazos Bridges Lighting to Repair and Upgrade
 - Two Step Process:
 - Request for Qualifications
 - Request for Proposal
 - Will include a technical advisor for the City with expertise
 - Considerations:
 - Extent of the lighting – all, topside only, cables
 - Type of lighting
 - Lifespan of lighting system
 - Available budget and options at different pricing points
- Maintenance Contract for IH 35 Decorative Lighting



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Timelines

- Decorative Lighting at Underpasses
 - Will be complete as part of the TxDOT I-35 Project
- Bridge Lighting
 - Request for Qualifications – 1st Quarter 22-23
 - Request for Proposal – Mid 2nd Quarter 22-23
 - Selection of the Successful Team – End 2nd Quarter 22-23
 - Construction schedule part of the proposal



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Questions?



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