

# 2025 MUNICIPAL STREETS SEMINAR

## BROADWAY STREET RECONSTRUCTION PROJECT

THE USE OF STAGING, DETOURING, AND TRANSPARENCY  
FOR A SUCCESSFUL PROJECT



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DAN BAKER, ENGINEER ASSISTANT



# BROADWAY STREET OVERVIEW

- 4 LANE DIVIDED ROADWAY
- 8,000-9,000 TOTAL ROADWAY AADT
- 1.5 MILES OF RECONSTRUCTION
- ROUGHLY 64,000 SY OF P.C.C.
- MIX OF ABUTTING RESIDENTIAL AND BUSINESSES
- 45 MPH – 55 MPH



# KEY CONSIDERATIONS OF STAGING

- BUSINESS/RESIDENT ACCESS ROUTES
- CONSTRUCTION TIMEFRAME



# COMMUNICATION WITH BUSINESSES & RESIDENTS

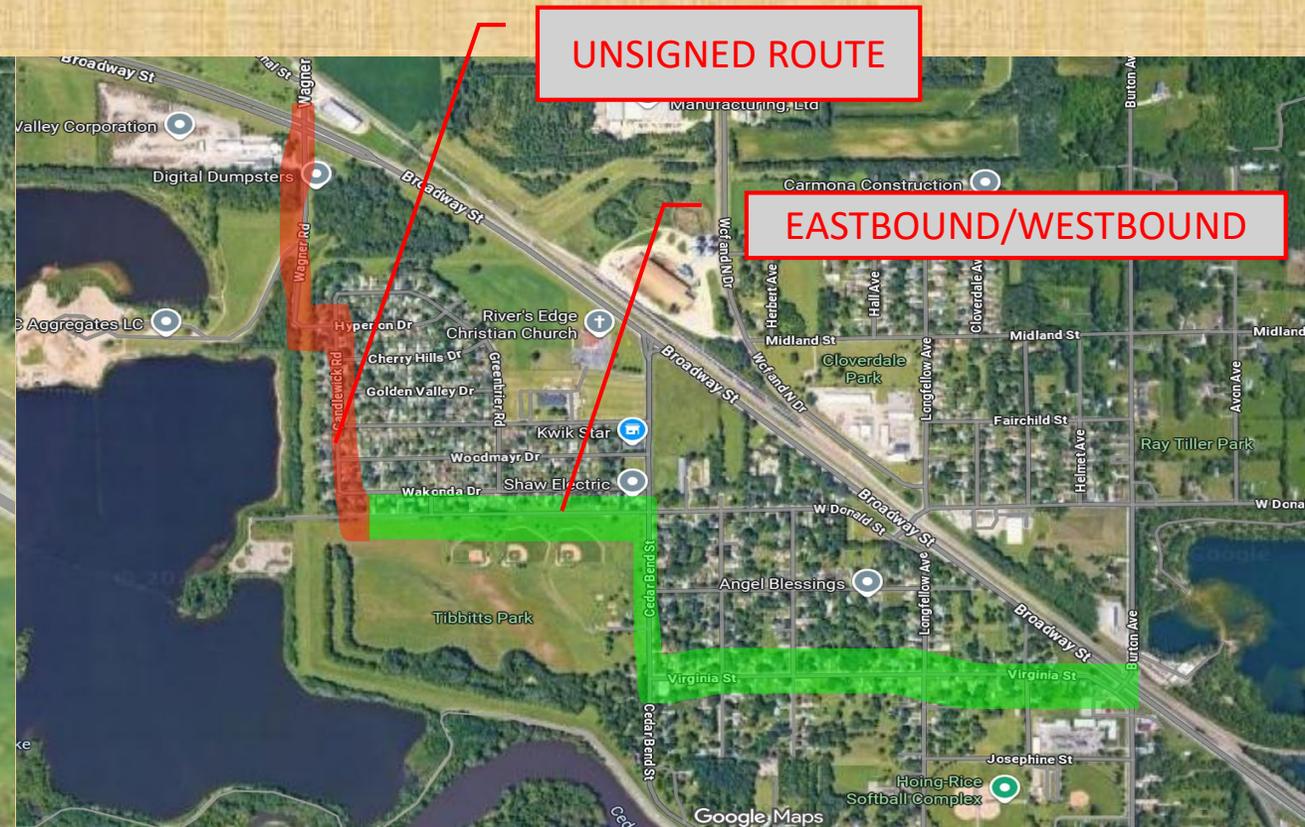
- REACH OUT TO ALL BUSINESSES ALONG THE CORRIDOR BEFORE OR EARLY IN DESIGN PHASE
  - GOALS:
    - CONTACT INFORMATION
    - UNDERSTANDING OF LOGISTICS
    - SPECIAL REQUESTS
- RESIDENTS ARE NOTIFIED CLOSER TO CONSTRUCTION
  - NEWS RELEASES, SOCIAL MEDIA, CITY COUNCIL, DOOR HANGERS, ETC.
  - SPECIAL REQUESTS HANDLED IN CONSTRUCTION



# BUSINESS & RESIDENT ACCESS ROUTES

- IDENTIFY BUSINESSES AFFECTED
  - IDENTIFY ACCESS NEEDS FOR EACH BUSINESS
  - IDENTIFY ALTERNATE ROUTES WHERE POSSIBLE

- RESIDENTS AFFECTED
  - LOCATE ALTERNATE ROUTES IF POSSIBLE
  - SIGN DESIRED ROUTES
    - LOCAL TRAFFIC WILL USE ALTERNATE ROUTES AS THEY SEE FIT



# CONSTRUCTION TIMEFRAME

- WHAT IS THE DESIRED LENGTH OF CONSTRUCTION?
  - ARE THERE DEADLINES THAT NEED TO BE MET?
    - FUTURE DEVELOPMENT?
- THE TIMEFRAME LEADS TO STAGING DECISIONS





# STAGING WRAP UP

- SET A TARGET FOR COMPLETION OF PROJECT
  - CREATE ROUGH OPTIONS IDENTIFYING KEY FACTORS
    - BUSINESS ACCESS, RESIDENT ACCESS, HOPSITALS, RAILROADS, ETC.
- COMMUNICATE EARLY WITH BUSINESSES
  - UNDERSTAND OPERATIONS AND NEEDS
  - GET CONTACT INFORMATION
- MINIMIZE OVERALL STAGING
  - IMPLEMENT SUBSTAGES IF NECESSARY
  - ANALYZE DETOUR ROUTE OPTIONS





## CONSIDERATIONS IMPLEMENTED FOR DETOURING

- HOW MUCH TRAFFIC IS BEING DETOURED
  - TRAFFIC VOLUMES HELP DETERMINE DETOUR ROUTES
  - LOW VOLUME - POSSIBLE TO USE RESIDENTIAL STREETS
  - HIGH VOLUME - DETOURS AROUND RESIDENTIAL STREETS
- LIMIT INCONVENIENCE FOR COMMUTERS
  - INCONVENIENCE IS INEVITABLE
  - KNOW YOUR TRAFFIC PATTERNS AND LIMIT DISRUPTIONS TO MAIN PATTERN

# CONSIDERATIONS IMPLEMENTED FOR DETOURING

- KEY SERVICES IMPACTED
  - SPECIFIC HOSPITAL DETOUR ROUTE FOR THE DURATION OF THE PROJECT.



# DETOUR CONSIDERATIONS

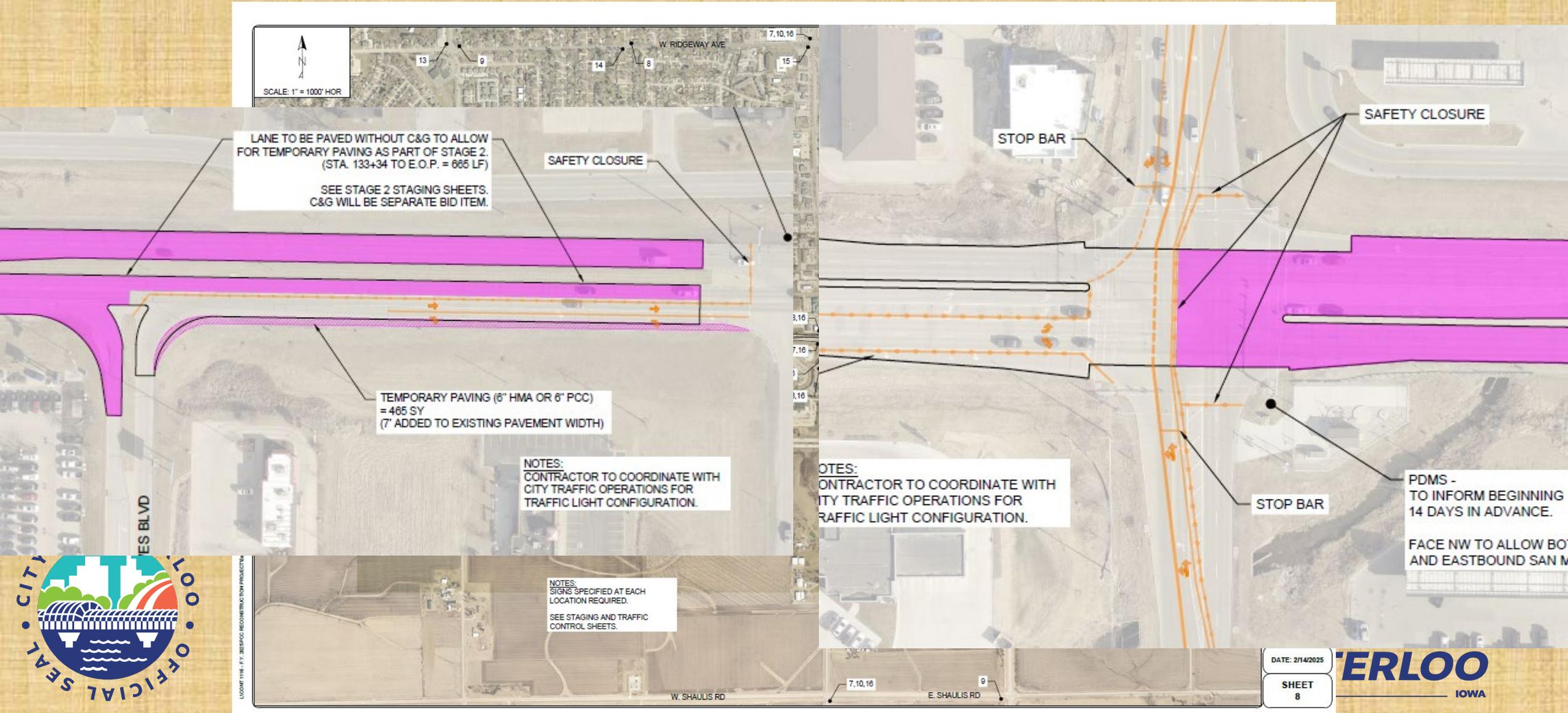
## POSSIBLE OPTIONS

- **OPTION #1 – DETOUR ALL TRAFFIC (USED ON CURRENT PROJECT)**
  - NEEDS TO ALLOW FOR MINIMAL DELAYS FOR DETOURED ROUTE
  - COST EFFECTIVE
  - EASE OF CONSTRUCTION
- **OPTION #2 – DETOUR 1 DIRECTION AT A TIME (USED ON THIS PROJECT)**
  - USED WHEN DETOURED ROUTE HAS SOME OF THE FOLLOWING
    - SIGNIFICANT TRAFFIC ITSELF
    - AVOID RESIDENTIAL AREAS
    - HIGH TRAFFIC BUSINESS CORRIDOR
  - COST EFFECTIVE
  - EASE OF CONSTRUCTION
- **OPTION #3 – HEAD TO HEAD (USED ON PREVIOUS PROJECT)**
  - USED WHEN ALTERNATE DETOUR ROUTES ARE INFEASIBLE OR IMPRACTICAL
  - LESS COST EFFECTIVE
  - REQUIRES MORE TEMPORARY PAVING
  - LESS SAFE FOR CONTRACTOR AND TRAFFIC



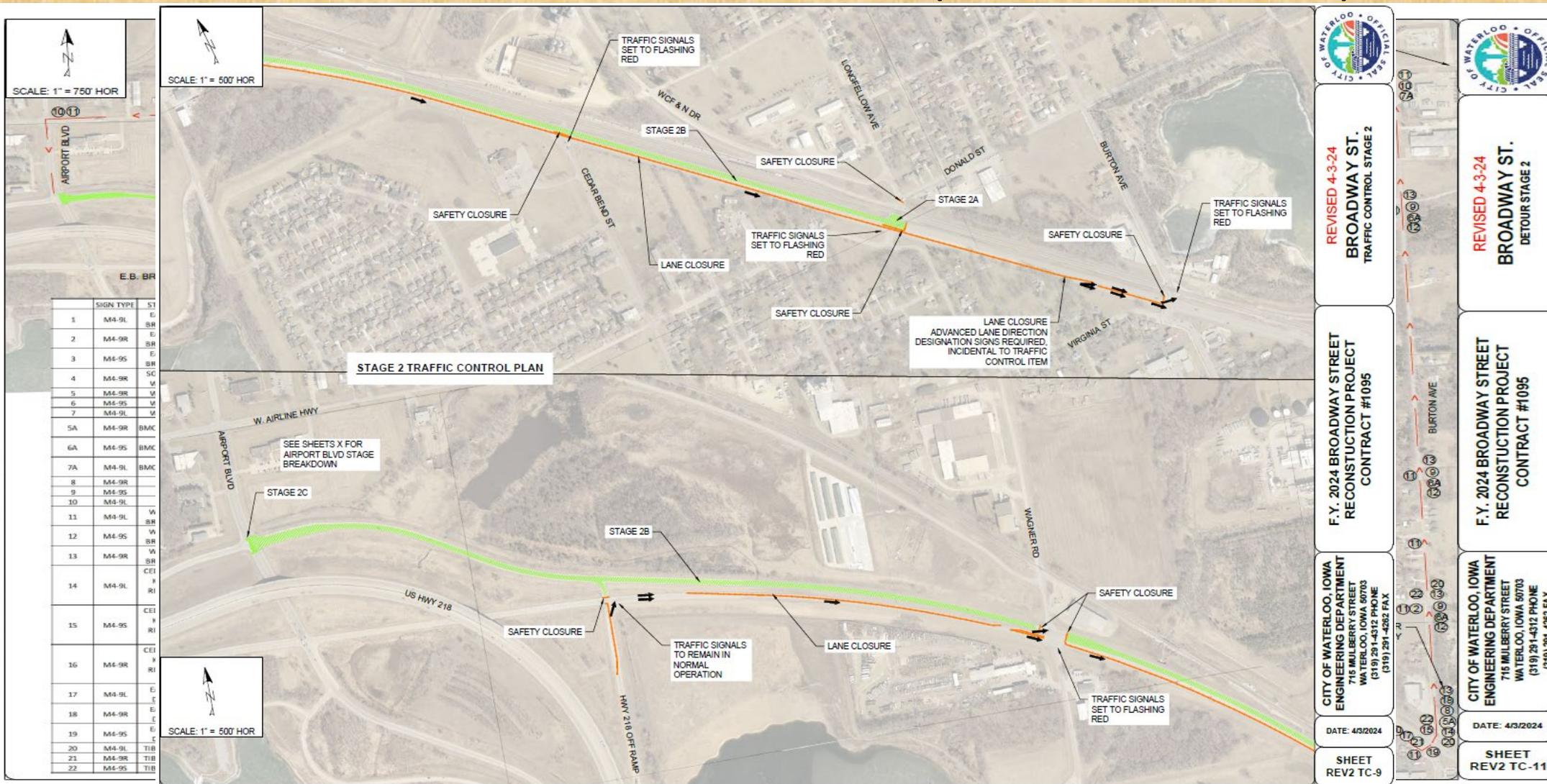
# OPTION #1 – DETOURING ALL TRAFFIC

CURRENT SAN MARNAN DR RECONSTRUCTION PROJECT (8,000-15,000 AADT)



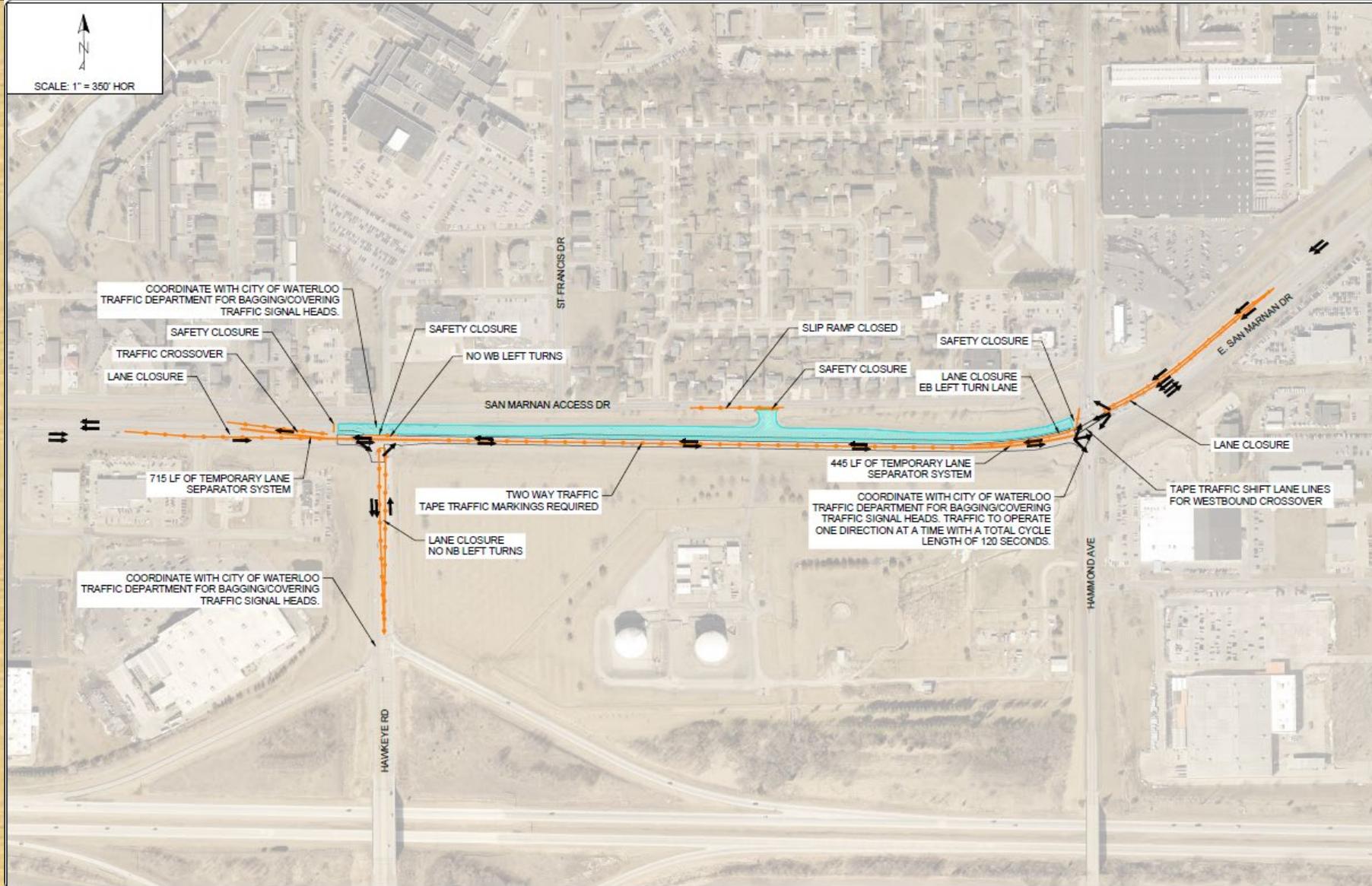
# OPTION #2 – DETOURING ONE DIRECTION AT A TIME

## BROADWAY ST RECONSTRUCTION (8,000-9,000 AADT)



# OPTION #3 – DETOURING HEAD TO HEAD

PREVIOUS SAN MARNAN DR RECONSTRUCTION PROJECT (17,000 AADT)



# PUBLIC TRANSPARENCY



# CITY WEBSITE UPDATES



# SOCIAL MEDIA - FACEBOOK

- CITY OF WATERLOO – 18,000 FOLLOWERS

 **City of Waterloo, Iowa - City Hall**  
Published by Agnes Kress · February 7 · 🌐

The City of Waterloo's Broadway Street reconstruction project has been awarded Iowa's "Best" Municipal Streets/Intersection Paving Project for 2024 by the Iowa Concrete Paving Association (ICPA).

Read more about this award on our website at [https://www.cityofwaterlooiowa.com/news\\_detail\\_T17\\_R726.php](https://www.cityofwaterlooiowa.com/news_detail_T17_R726.php)

Pictured left-to-right with the award; Derick Gibbs/Engineering Technician, Jamie Knutson/City Engineer, Olivia Henke/Engineering Technician, Matt Schindel/Principal Engineer, Kenny Johnson/Engineering Technician, Dan Baker/Engineer Assistant.



 Los Bravos Boxing Club LLC and 102 others

 13 comments  3 shares



...  
e finished project taken

...  
losed for street  
st bound lanes  
detailed update

...  
ments 36 shares

Share



 10 comments  19 shares



# SOCIAL MEDIA - YOUTUBE

- CITY OF WATERLOO – 1,420 SUBSCRIBERS



# EMAIL COMMUNICATION

- WEEKLY NEWSLETTER

- BUSINESS GROUP UPDATES



**CITY OF WATERLOO Engineering**  
715 Mulberry St, Waterloo, IA 50703  
Phone: (319) 231-4312  
CITYOFWATERLOOIA.COM

**DATE:** November 6, 2025  
**TO:** Mayor Quentin Hart  
**FROM:** Jamie Knutson, PE, City Engineer  
**RE:** **NEWS RELEASE: 2025 WEEKLY ROAD CONSTRUCTION UPDATE**

It should be noted that all dates listed in this press release are **tentative only** and are subject to change due to unforeseen circumstances or weather delays.

You may visit our website at <http://www.cityofwaterlooia.com> for updates and maps. Click on the tab to the right of the search option in the upper right-hand corner of the web site and select Quick Links and then select Construction Closures and Updates.

> **E. MITCHELL AVENUE RAILROAD CROSSING REPAIR**  
The E. Mitchell Avenue railroad crossing between Hwy 218 and Sheffield Avenue will be closed for repair on November 10, 11, and 12.

> **FY 2025 E./W. SAN MARNAN DRIVE RECONSTRUCTION PROJECT, Contract No. 1116**

STREET	FROM	TO	TENTATIVE START DATE
W. San Marnan Drive	Kimball Avenue	Ansborough Avenue	Under Construction

Eastbound and westbound W. San Marnan Drive are closed from Kimball Avenue to Ansborough Avenue. The Kimball Avenue/San Marnan Drive intersection and the Ansborough Avenue/San Marnan Drive intersection will remain open.

Eastbound and westbound E. San Marnan Drive are open to traffic from Hwy 21 to Kimball Avenue.

> **FY 2025 ASPHALT RECONSTRUCTION PROJECT, Contract No. 1117**

STREET	FROM	TO	TENTATIVE START DATE
W. Mullan Avenue	South St./Leland Ave.	north 400'	Under Construction

> **FY 2025 ASPHALT OVERLAY PROGRAM, Contract No. 1115**

STREET	FROM	TO	TENTATIVE START DATE
*W. Ridgeway Avenue *lane closures	West City Limits	Black Hawk Creek	Under Construction
W. Parker Street	Ackermant Street	Logan Avenue	Under Construction

> **HEARTLAND HILLS AREA PHASE 3 WATER MAIN REPLACEMENT PROJECT**

This includes all of Fleur Drive, Aspen Drive, Onawa Drive, Del Matro Road, and Monterey Drive. It is anticipated that this project will take 2-3 months and has a completion date of November 24, 2025. Updates will be sent out for actual road closures. For questions regarding this project, please call the Waterloo Water Works at 319-232-6280 or Claassen Engineering at 319-235-6294.

Broadway St Reconstruction

MATT SCHINDEL  
To: [REDACTED]  
Bcc: [REDACTED]

BroadwayTCSheets4-3-24.pdf  
11 MB

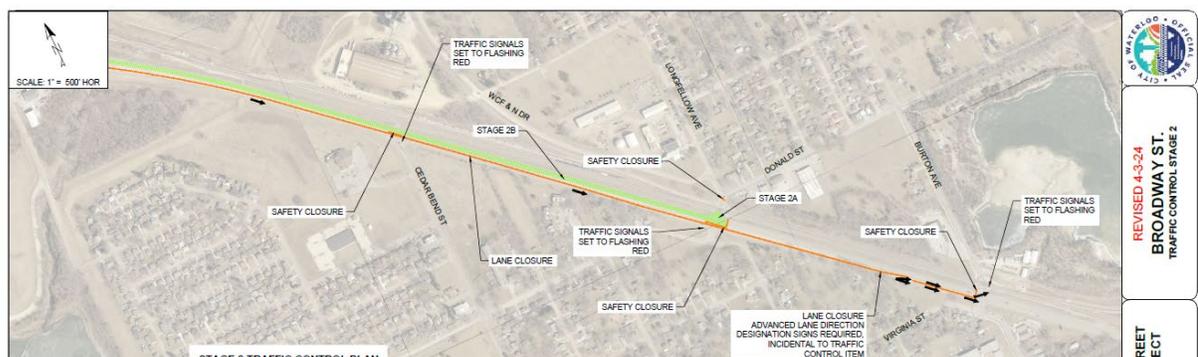
All,

Please see below for the traffic control (or attached PDF) sheet switching us to Stage 2 of construction. This stage will close westbound traffic. The traffic will be detoured starting Tuesday, June 11<sup>th</sup>.

I am sorry for the late notice. We are finishing up eastbound Broadway ahead of schedule. We decided to close on short notice due to our paving contractor having the ability to get in and pave Donald street this month. Eastbound traffic is planning on being opened sometime the week of the 17<sup>th</sup> (weather dependent). Eastbound lanes will finish paving tomorrow. Then we will need to shoulder, topsoil, seed, and stripe.

All in all, this leaves us roughly 2 weeks of both directions closed, but after this month or sooner (weather dependent), we will have eastbound traffic, Wagner, and Donald open to traffic.

Feel free to reach out with any questions or concerns.



SCALE 1" = 500' HOR

STAGE 2A  
STAGE 2B

TRAFFIC SIGNALS SET TO FLASHING RED

SAFETY CLOSURE

LANE CLOSURE

LANE CLOSURE  
ADVANCED LANE DIRECTION DESIGNATION SIGNS REQUIRED.  
INCIDENTAL TO TRAFFIC CONTROL ITEM

REVISÉ 4-3-24  
BROADWAY ST  
TRAFFIC CONTROL STAGE 2



# PUBLIC TRANSPARENCY WRAP UP

- CITY OF WATERLOO USES SOCIAL MEDIA, CITY WEBSITE, AND EMAILS FOR MASS NOTIFICATIONS.
  - FACEBOOK RESULTS IN MORE HITS/FEEDBACK
    - GOOD AND BAD...
  - EMAILS ARE GREAT FOR KEEPING BUSINESSES INFORMED
- CITY OF WATERLOO DISTRIBUTES DOOR HANGERS PRIOR TO CONSTRUCTION FOR RESIDENTS AS WELL.



THANK YOU!

QUESTIONS?

