



# **Secondary Roads Department**



**Annual Department Progress Report**

**Work Session**

**Wednesday, 9:00 am, December 8, 2021**

Greg S. Parker, PE, County Engineer



# Secondary Roads Dept.



## Budget Review

## Department Accomplishments

- Roadside Vegetation
- Maintenance
- Engineering/Construction

## Green Initiatives & Sustainability

## Other

## Questions/Comments



## Secondary Roads - Budget Review



### **2021 Budget (ended 6/30/21):**

Total Approved Budget = \$17,468,271.00

Total Actual Expenditures = \$11,605,431.12

Under-budget: \$5,862,839.88

(Beginning Fund Balance 7/1/21 \$9,200,266.80)

**2022 Budget:** \$16,546,749.00

Percent Expended – 28%

Percent Allocated Expenditure – 33%

(end of November)



# Secondary Roads - Department Accomplishments

## Roadside Vegetation

- Complete stabilization and erosion controls as well as final seeding on all maintenance and construction projects
  - Plan Invasive Species Field Day (Spring 2022) with Iowa CCB
  - Finalize Hawkeye CWMA website redesign with Iowa Valley RC&D
  - Attend Iowa Streets & Roads Conference
  - Attend Iowa Organics Association Conference and set up IRVM Info booth
  - Complete LRTF grant purchase of GoPro Hero camcorder
  - Attend annual IRVM Conference for continuing education
  - Begin winterization of equipment
  - Ongoing resolutions of brush and visibility complaints
  - Contact participants enrolled in Roadside Maintenance Agreements
  - Complete continuing education hours for pesticide applicators certifications
  - Start mechanical brush removal projects on hard surface and granular roads
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- Apply and receive funding from IDOT Living Roadway Trust Fund grants for grant for Hawkeye CWMA website redesign and GoPro Hero 9 Camcorder
  - Apply for and receive TEA-21 Enhancement Seed (Native grasses and wildflowers from grant) from UNI Tallgrass Prairie Center and Federal Highway Administration (~\$10,000 grant funding)
  - Invasive Species applications for Japanese Knotweed, Teasel, Canada Thistle, and other invasive species
  - Attend annual Roadside Vegetation Management Conference
  - Work with Iowa Valley RC&D on grant funded Hawkeye CWMA website remodeling
  - Attend continuing education sessions for pesticide applicators certifications
  - Prioritize roadside visibility and brush removal requests with landowners
  - Roadside Maintenance Agreement Program management and public contacts for 80 organic and non-chemical usage landowners
  - Adopt A Roadway Activity coordination for 10 Civic Groups- ~10,000 lbs. trash!



# Secondary Roads - Department Accomplishments



## Maintenance Activities:

- Rock 107,000T
- Chip Seal 19.14 miles resealed
- Ditch Cleaning 16 lane miles
- 67 Culverts Replaced
- Pavement Markings 53.34 mi centerline, 95.60 mi edgeline
- Signs 197 signs replaced/repared
- Snow/Ice 41call outs (Nov 21 to Mar 15) last season

**MRP's Completed:** James Avenue Regrade (Macadam/Choke .5 mi) Walker Homestead Project

Wapsi Avenue (Between LWBRD and 400<sup>th</sup> Macadam/Choke 1.3 mi).

180<sup>th</sup> (Utah to Cedar County line) 3.8 miles Otta Seal

PCC Patching - M21-6. Hwy 965, 520<sup>th</sup> Street, Sand Road



## Secondary Roads - Department Accomplishments



### Construction Projects: (\$10M+ construction)

I-33-1 Bridge Replacement (Utah Avenue over branch of Rapid Creek): Done.  
Replaced bridge with a Reinforced Concrete Box culvert.

I-9-1 Bridge Replacement (Putnam Street over East Fork Rapid Creek): Done.

E-20-2 Bridge Replacement (Black Hawk Avenue over branch of Clear Creek):  
Done.

Melrose Ave / F46 / IWV Road (Hebl to Hwy 218): Construction in progress.

Herbert Hoover Hwy / F44 Ph 3 (0.9 mi east of Wapsi Avenue to 0.2 mi west of Johnson Cedar Road): Let in August. Contractor opting to start in 2022.



# Secondary Roads - Department Accomplishments



## Upcoming Design/Construction Projects:

- Melrose Avenue/IWV Road (Hebl to Hwy 218): Construction continues in 2022.
- Herbert Hoover Highway Ph 3: Construction begins in early 2022.
- Ely Road Phase Ph 5 (140th to Linn County): Spring 2022 Letting.
- Amana Road Regrade (Hwy 965 to Greencastle): Pending Corp of Engineers permit review.
- 540th Street (Stringtown Grocery): Fall 2022 Construction.
- 500th Street (Angle Rd to Hwy 1): Fall 2022 Construction.
- P-2-3 Bridge Deck Overlay (Orval Yoder Tpke over Old Mans Creek): Spring 2022 Letting.
- N-5-2 Bridge Replacement\* (Halfmoon Ave over Deer Creek): Summer 2022 Letting.
- C-21-5 Bridge Replacement\* (Amana Road near Cou Falls): Fall/Winter 2022 Letting.
- O-25-1 Bridge Replacement\* (Cosgrove Road over N.Branch Old Man's Ck.): Design in progress.
- O-30-2 Bridge Replacement (Rohret Rd over Mooney Creek): 2022 Construction.
- American Legion Road (Taft Ave to Hwy 6): 2022 Construction.
- Q-22-2 Bridge Replacement (James Ave.): Design in progress.
- Herbert Hoover Highway and Johnson Cedar Intersection: Design in progress.
- 120th Street (Shueyville to Hickory Hollow and on Club Rd to Linn Co.): Design in progress

\*-New projects required by our most recent bridge inspections

## Upcoming MRP's:






- Regrade – Intersection of Sugar Bottom Rd & Jordan Creek Rd.
- Regrade – Hickory Hollow Road NE (Mohawk to 120<sup>th</sup>)
- Regrade – Taft Avenue SE (American Legion Rd to 420<sup>th</sup>)
- Otta Seal – Derby Avenue NW (120th to Linn Johnson Rd)
- Otta Seal – Taft Avenue SE (American Legion Rd to 420<sup>th</sup>)
- Crack Sealing – Various Locations



# Secondary Roads - Green Initiatives/Sustainability



## Maintenance:

-  Continue to Recycle dumped Appliances left in the ditch.
-  Continue to purchase Tier 4 compliance clean diesel engines.
-  Using Recycled Asphalt on various projects throughout JC.
-  Vehicle oils/filters and used tires are recycled.
-  Old Signs, Steel Parts & equipment are recycled.



## Green/Climate Adaptation Initiatives:

The upcoming Ely Road project incorporates raising the road profile over a foot above the maximum 2008 flood level to provide a continuous paved artery between Cedar Rapids and Iowa City. Together with the flood mitigation design incorporated on Hwy 965 last year, we are actively addressing climate change extremes by providing redundancy in our transportation network. Johnson County is leading the way in this critical transportation corridor.





## Secondary Roads - Other



Outreach Efforts: The Department continues, as part of the Boards Strategic Priority III, multiple outreach efforts to increase transparency and keep the public informed about our operations and construction projects via: Dynamic Message Boards, QR Code Signs, County Website, Newsletter, Media, Twitter, Press Releases, multiple meetings with various Cities in Johnson County and various professional organizations. Staff will continue reach out to Local Schools to promote County Engineering and Maintenance Activities for students looking into alternative employment opportunities.

Utility Permits: To date we have received 123 permits. This will likely be an all time record year and is likely to continue as storm hardening projects from the Derecho and Federal Funding for infrastructure come in. Approximate average staff time/permit: 8 hours.

Oversize/Overweight Permits: To date we have reviewed 116 permits, approximate average staff time/permit: 2 hours.

Right of Way Permits: To date we have reviewed 58 permits, approximate average staff time/permit: 8 - 10 hours.



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