**Summary of Utilities Department Projects**  
That Will Be Reported on to the  
Council Infrastructure Committee  
in 2019  

January 15, 2019

**Water and WPC Plant Projects**

<table>
<thead>
<tr>
<th>Project</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>J Ave Water Treatment Plant Site Improvements (6250056). Replace the existing gravel driving and parking surfaces with concrete pavement. Some underground site and process utilities are in need of repair or replacement prior to paving. Correlated activities, such as site grading, drainage, and security improvements are included.</td>
<td>In construction. Scheduled to be complete mid-2019.</td>
</tr>
<tr>
<td>Stage 2 J Ave Water Treatment Plant Site Improvements (6250073). Second stage of replacement of existing gravel driving and parking surfaces with concrete pavement. Some underground site and process utilities are in need of repair or replacement prior to paving. Correlated activities, such as site grading, drainage, and security improvements are included.</td>
<td>Final design scheduled to begin. Project to file June 2019.</td>
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<tr>
<td>NW Treatment Plant Softener Addition (6250072). Add a third softener basin at the plant to rated for 15 million gallons per day. This will add resiliency to the plant capacity to make possible long term maintenance of the original 1995 softeners.</td>
<td>In design. Scheduled to file late 2019 – early 2020.</td>
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<tr>
<td>Corrosion Control Study (6250067). Study to evaluate water distribution system corrosion control system performance and to develop recommendations for optimized corrosion control and subsequent monitoring using test stands composed of pipe loops that are continuously exposed to actual treated water from the J Ave Water and Northwest Treatment Plants.</td>
<td>Study to be conducted between now and mid to late 2020.</td>
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<tr>
<td>Distribution Maintenance Building Roof Replacement (6250063). The project will include replacement of the flat rooftops above the Water Distribution Maintenance Building.</td>
<td>In design. Scheduled to file March 2019.</td>
</tr>
<tr>
<td>Solids Handling Study (6250074). Evaluate options for reusing and disposing of waste lime softening solids collected at both water treatment plants.</td>
<td>Study to begin January 2019.</td>
</tr>
<tr>
<td>WPCF Odor Control Project (615233). Expansion and upgrades to odor control scrubbers and biofilters at WPCF.</td>
<td>Construction to be completed January 2019.</td>
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<tr>
<td>Project Description</td>
<td>Status</td>
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<tr>
<td>Cryogenic System Improvements Project (615206). Replace existing equipment that has reached the end of its lifespan, make improvements to liquid oxygen generation facility to improve energy efficiency, automate portions of the process to reduce the need for operator input, and make other general improvements to ensure the smooth operation and maintainability of the system for the foreseeable future.</td>
<td>In construction. Scheduled to be completed September 2019.</td>
</tr>
<tr>
<td>Intermediate and Final Lift Station HVAC Improvements (615002). Correct existing deficiencies with the HVAC systems in these buildings and bring the ventilation rates up to what is required by current building codes.</td>
<td>In construction. Scheduled to be completed November 2019.</td>
</tr>
<tr>
<td>WPCF Laboratory Upgrades (6150024). Improvements to the existing laboratory facilities including, replacement of casework, countertops, cabinets, flooring, fume hoods, and upgrades to comply with Americans with Disability Act requirements.</td>
<td>Project filed December 18, 2018. Scheduled to complete construction in late 2019.</td>
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<tr>
<td>WPC Main Lift Station and Primary Clarification Study (6150026). Study is to a master planning effort to determine a plan for future improvement projects related to the Main Lift Station and Primary Clarifiers, including recommended schedules and opinions of probable cost.</td>
<td>Study to be completed by June 2019.</td>
</tr>
<tr>
<td>Effluent Return Pipeline Replacement (6150019). Replace worn effluent return line that is currently installed in tunnel at WPCF and has reached the end of its service life.</td>
<td>In design. Project to file in March 2019.</td>
</tr>
<tr>
<td>Plant-wide PLC Conversion Project (6150039). Upgrade existing WPCF Programmable-logic controllers (PLC) network that controls plant processes throughout the plant, and clean up/demolish abandoned-in-place wiring, relay hardware, and other industrial controls related equipment that has been left over from previous controls upgrade projects.</td>
<td>PSA being negotiated with selected consulting engineer.</td>
</tr>
<tr>
<td>Indian Creek Lift Station Improvements Study (6150044). Evaluation to determine maintenance and repair plan for Lift Station over the next 20 years.</td>
<td>RSQ out to prospective consultants. Expect RSQ out to prospective consultants. Expect select consultant by January 2019.</td>
</tr>
<tr>
<td>WPCF Sewer Inspection &amp; Repairs (615123). The project will include cleaning and televising 24,000 feet (4-1/2 miles) of the Anaerobic Gravity Sewer Main from the Indian Creek Lift Station to International Paper, cleaning and televising 3,000 feet of the Return Sewer Main at the Water Pollution Control Facility, and lining of seven manholes in the Anaerobic Pretreatment Facility.</td>
<td></td>
</tr>
<tr>
<td>WPCF Return Sewer Lining (6150033). The project will include lining of approximately 2,300 LF of concrete sewers and 17 sewer manholes at the Water Pollution Control Facility. Corrosion resistant lining systems will be used to reduce the corrosion rate within the sewer.</td>
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## Water Main Projects

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<th>Project</th>
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<tbody>
<tr>
<td>3012131-04 (2016057) 12th Ave SE from 17th to 19th Streets SE</td>
<td>Proposed Bid Date: 01/23/2019</td>
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<tr>
<td>One phase of the improvements from NewBo to Memorial Drive. Water Main primarily in intersect the intersection of 12th Ave and 19th St SE.</td>
<td></td>
</tr>
<tr>
<td>3012199-02 (2017054) Mt. Vernon Road SE from 38th St to East Post Road. Includes Traffic Signals, 1,500 feet of 16-inch water main (feed to Mt. Vernon Tank), pavement mill &amp; overlay and sidewalks</td>
<td>Proposed Bid Date: 01/30/2019</td>
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<tr>
<td>3012236-02 (2018048) Council St NE from south of 46th St to Collins Rd. Street Reconstruction with approx. 1,600 feet of water main replacement.</td>
<td>Proposed Bid Date: 02/27/2019</td>
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<td>3012102-02 (2016090) Forest Dr SE from Mt. Vernon Rd to Grande Ave SE. Pavement Rehab, Sidewalk Infill, Water Main Loop Closure, Sanitary MH’s and Storm Sewer Inlets</td>
<td>Proposed Bid Date: 03/20/2019</td>
</tr>
<tr>
<td>301965-03 (2018081) Earhart Lane SW, Ph-2; Grant Funded Street Extension, with Developer Funded Water Main extension.</td>
<td>Proposed Bid Date: 03/20/2019</td>
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<td>3316510-12 (2017028) 8th Ave Bridge Water Main Relocation. Project to move water main off the 8th Ave Bridge so the bridge can be replaced. New water main will cross beneath the river at 7th Ave SE.</td>
<td>Proposed Bid Date: 03/27/2019</td>
</tr>
<tr>
<td>3012148-07 (2016066) Old Marion Rd NE from Regent St to C Ave NE. Pavement reconstruction and Rehab, Sidewalk &amp; ADA Ramps, Orangeburg replacement, Water Valve &amp; Fire Hydrant replacement. Traffic Signals</td>
<td>Proposed Bid Date: 10/23/2019</td>
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<tr>
<td>304479-02 (2018057) 21st Ave SW west of 12th St, Culvert Replacement Remove and Replace failing 48-inch culvert and storm sewer inlets; plus water main north of 21st Ave SW from 12th to 13th St.</td>
<td>Proposed Bid Date: 10/23/2019</td>
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<tr>
<td>3012094-04 (2017023) Center Point Rd from J Ave to 29th St NE; Intersection Improvements, Traffic Signals and Water Main</td>
<td>Proposed Bid Date: 11/06/2019</td>
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<tr>
<td>3012089-03 (2017073) Chandler St SW, Ph-2; from 10th Ave to 18th St SW includes pavement upgrades, and approx. 600 feet of water main replacement.</td>
<td>Proposed Bid Date: 11/13/2019</td>
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<tr>
<td>3012174-02 (2016060) E Ave NE from 17th to 19th St NE Pavement Reconstruction, Approx 1,800 feet of Water Main replacement &amp; Sanitary Sewer improvements.</td>
<td>Proposed Bid Date: 11/13/2019</td>
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<tr>
<td>301666-03 92018045) Tower Terrace Rd. from C Ave NE to Alburnett Rd NEW Street Construction, includes 1,400 LF of 20-inch AND 2,500 Lf of 12-inch water main</td>
<td>Proposed Bid Date: 11/13/2019</td>
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<tr>
<td>301695-03 (2015074) 6th St SW from Wilson to 33rd Ave SW. Pavement Reconstruction, Sidewalks, Drainage Improvements, 5,300 feet of Water Main Replacement.</td>
<td>Proposed Bid Date: 11/20/2019</td>
</tr>
</tbody>
</table>

## Updates:

### Kirkwood Tank Related Projects
As part of the program including the new Kirkwood Elevated Tank, a 16-inch water main along Ely Rd SW south of the river and a 16-inch water main along Otis Road and Memorial Drive north of the river were built in 2018. These completed the connection across the river at the existing river crossing.
downstream of the roller dam, making it possible to route water across the river between the Mt Vernon Road and Kirkwood or Cedar Hills service zones. Improvements at the Kirkwood Booster and the 60th Avenue Booster will be completed in early 2019, reinforcing supply to the area served by the new elevated tank.

The Kirkwood Elevated tank is in the home stretch of construction. The rain and cold experienced this Fall delayed completion of painting and site work. Painting was completed behind schedule. Site work is principally what needs to be finished at this point. The site work, implementing the system zone boundary changes, and filling the tank and putting it into service is anticipated in Spring 2019.

**Well Field Modelling Effort with USGS**
USGS report and maps for the Airborne Electromagnetic Survey were completed in December 2018. Aquifer model assembly using the data acquired is proceeding in parallel and should be completed in 2019. The model will thereafter be used to evaluate aquifer capacity under various climatological conditions, and to examine possible locations for future wells.

**Water Pollution Control Facility Nutrient Reduction and Solids Facility Plan Update**
This effort has been ongoing for the past two years and is nearing completion. An Executive Summary will be available for Council review by February 2019 and will be presented to the Infrastructure Committee in March 2019. A final report to the Iowa Department of Natural Resources stating the City’s plan for meeting the obligations of the Iowa Nutrient Reduction Strategy is due by June 1, 2019. The study has included examination of alternative technologies for nitrogen and phosphorous removal, and handling of the microbiological solids produced in the wastewater treatment process. The study is evaluating alternatives with respect to capital costs, O&M costs, possible revenue generation, life cycle costs, sustainability, and re-use of existing useful infrastructure. The objectives include regulatory compliance, minimizing costs and potential impact on the rates charged for service.

**J Avenue Phase 2 Process Improvements**
Second of five phases of improvements to J Ave WTP. The work includes improvements to Raw Water Metering Building and Raw Water Main Improvements, Train 3 Softener and Secondary Clarifier/Softener, Lime Feeding Equipment, Lime Solids Dewatering Centrifuges and Centrifuge Building, expansion of Carbon Dioxide Feed Equipment, electrical upgrades including a new Electrical MCC Building and replacement of electrical feed equipment in the existing Back Operations Building, and other related miscellaneous improvements. Project is currently scheduled to be completed by May 2020.
To: City Council Infrastructure Committee  
From: Brenna Fall, P.E.  
Subject: Update – Capital Improvement Projects – 2019 Preview  
Date: January 15, 2019

Background:  
Public Works Engineering has a number of Capital Improvement Projects in development for 2019.

Projects currently under construction:  
- Downtown Walkway from the Convention Center Ramp to US Bank – Construction on the walkway (skywalk) will continue into 2019 and is anticipated to be complete in June.  
- Earhart Lane SW – Paving will be completed in 2019 for the first 1,000 LF south of the new Lil Drug site.  
- Collins Road NE from east of Northland Avenue NE to Twixt Town Road NE – Construction will continue into 2019 and is anticipated to be complete in October.

New projects to start construction in 2019:  
- ADA Curb Ramp projects (various 2019 letting dates)  
- Prairie Grass Lane NE from Milburn Road to west of Windy Meadow Circle (February Letting)  
- Sidewalk Repair (February Letting)  
- 10th Street SE from 5th Avenue SE to 8th Avenue SE Roadway and Streetscape Improvements (February Letting)  
- CEMAR Trail Phase IA (February Letting)  
- Cherokee Trail Phase I from Stoney Point Road through Cherry Hill Park to Sharon Lane NW (March Letting)  
- Wright Brothers Blvd SW at I-380 Westbound Right Turn Lane (March Letting)

Projects bidding later in 2019:  
- Cherokee Trail Phase II from Morgan Creek to Cherry Hill Park and from Cherry Hill Park through Cherokee Park NW (July Letting)  
- Lindale Trail Phase I from Council Street to East of C Avenue NE (September Letting)  
- 1st Avenue & 4th Street Railroad Crossing (November Letting)  
- Tower Terrace Road from C Avenue to Alburnett Road (November Letting)

Update:  
A brief summary of notable projects will be shared with the Committee at the meeting.

Requested time on agenda: 5 min
To: City Council Infrastructure Committee
From: Dave Wallace, P.E.
Subject: Update – Stormwater and Sanitary Sewer Capital Improvement Projects – 2019 Preview
Date: January 15, 2019

Background:
Public Works Engineering has a number of Capital Improvement Projects in construction and development for 2019.

Projects currently under construction or to start construction in 2019:
- Sanitary Sewer Flow Meter Automation – Equipment installation is complete and data is live at most sites.
- Fox Meadow Drive SE at Deepwood Court SW Storm Sewer Improvements – Spring start with summer completion.
- Noelridge Park Streambank Mitigation (for Rockhurst Detention basin) – Spring start with fall completion.
- Rockhurst Detention Basin – Construction is underway with fall completion.
- Prairie Creek from J Street SW to Hawkeye Downs Sanitary Sewer Replacement – Construction beginning this week with 2020 completion.

Projects currently under design to bid in 2019:
- Williams Boulevard SW east of Stoney Point Road Sanitary Sewer Relocation
- C Avenue NE (east of) and East Robins Road (north of) Sanitary Sewer Extension
- 21st Avenue SW between 12th Street and 13th Street: Street reconstruction and culvert and water main replacement.
- Beaver Hollow SE east of East Post Road Lift Station Replacement
- Edgewood Road (west of) South of Prairie Creek Sanitary Sewer Extension
  - Harrison Detention Basin Capacity Improvements
  - Edgewood Road NW (west of) North of Cedar River Embankment Stabilization
- FY19 Drain Tile Extension Program (multiple sites)
- FY20 Sanitary Sewer Point Repairs and Lining

Update:
A summary of notable projects will be shared with the Committee.

Requested time on agenda: 5 min
2019 Paving for Progress Update presented by Doug Wilson, P.E., Program Manager
Paving for Progress

- Budget - $18.9 million for FY 20
- Year five of the 10-year capital improvement plan
  - Data driven
  - Recommended treatment methods
  - Rehabilitation/ Reconstruction balance
- Plan published in 2015; updated in 2017
- New update in early 2019
- Five year summary at next Council meeting
Paving for Progress 2019 Preview

Projects for 2019

• Ellis Boulevard NW from I Avenue to O Avenue
• 12th Avenue SE from 17th Street to 19th Street
• Mount Vernon Road SE from 38th Street to 42nd Street
• 8th Avenue SW from 15th Street to 18th Street
• 3rd Avenue from east end of Cedar River Bridge to 19th Street
• Council Street NE from Collins Road to 46th Street
• Forest Drive SE from Mt Vernon Road to Grande Avenue
Projects Continuing from 2018

- E Avenue NW from Iowa 100 to Stoney Point Road
- Johnson Avenue NW from 1st Avenue to Midway Drive
- Memorial Drive SE from Mt. Vernon Road to Bever Avenue
- Memorial Drive SE from Mt. Vernon Road to McCarthy Road
- Center Point Road NE from 29th Avenue to 32nd Avenue
- Midway Drive NW from West Post Road to Wiley Boulevard
- H Avenue NE from 14th Street to 16th Street; 16th Avenue from H Avenue to E Avenue
- 3rd Avenue from 1st Street SW to east end of bridge
City Forces & Local Street Projects

• Increasing asphalt resurfacing work
• Will mean approximately 15 additional neighborhood streets can be completed in a season

Examples of Neighborhood Work
• 23rd Street NE
  D Avenue to A Avenue
• E Avenue NE
  Collins Road to Old Marion Road
• Washington Avenue SE
  19th Street to 20th Street
• Park Avenue SE
  19th Street to 20th Street
• 28th Avenue SW
  29th Street to 31st Street
• Outlook Drive SW
  29th Avenue to Clover Drive
• H Avenue NW
  10th Street to Ellis Boulevard
• 1st Avenue W
  Leroy Street to Johnson Avenue
Paving for Progress 2019 Preview

Beyond 2019

• 12th Avenue SE from 7th Street to 17th Street
• 6th Street SW from Wilson Avenue to 33rd Avenue
• 8th Avenue SW from 15th Street to Rockford Road
• Oakland Road NE from C Avenue to Center Street
• Center Point Road NE from J Avenue to Coe Road
• 66th Avenue SW from 6th Street to Locust Road
• O Avenue NW from 16th Street to Edgewood Road
• Ellis Boulevard NW/ 6th St NW Connection
2019 Capital Improvement Project Update presented by Brenna Fall, P.E., Program Manager
Capital Improvement Program

Notable Projects in 2019

• Downtown Walkway (Skywalk)
  • Anticipated completion in June
• Collins Road NE near Lindale Mall
  • Anticipated completion in October
Capital Improvement Program

10th Street SE from 5th Avenue SE to 8th Avenue SE - Roadway and Streetscape Improvements
Capital Improvement Program

Cherokee Trail Phase I
Capital Improvement Program

Cherokee Trail Phase II
Walkability Efforts

Pedestrian Master Plan
- Draft Final Plan available in February, presentations to Council Committees in March

Sidewalk Ramps & ADA
- Nearly 2,000 compliant to-date
- First-time compliance performance over 80%
- Up to 3 projects letting in 2019

Sidewalk Repair Program
- On schedule for inspection zones
- Final assessments are tracking closely with completion of each CIP
2019 Sewer Utilities Updates presented by Dave Wallace, P.E., Program Manager
Rockhurst Detention Basin

- 36 acre-ft Storage volume
- Peak flow reduced from 500 cfs to 120 cfs (100 year event)
Prairie Creek from J Street to Hawkeye Downs – Sanitary Sewer Replacement

- Serves most of the southwest area (16,000 acres)
- Large industrial users
- Additional capacity for future growth:
  - Land and Air Super Park
  - The Big Cedar Megapark
  - Other residential, commercial and industrial
- Capacity: 70 million gallons per day
- Total Investment (all phases): $27M
Prairie Creek – Previous Phases
C Avenue NE (east of) and East Robins Road (north of) Sanitary Sewer Extension

- Project Cost: $500,000
- Service Area: 360 acres (Cedar Rapids)
Harrison Detention Basin Capacity Improvements

- 80% increase in Storage volume (15 acre-ft to 27 acre-ft)
- Increase in Storage volume decreases chance of flow overtopping onto 11th Street NW
- Future upstream detention improvements planned
2019 Right of Way Management Update
presented by Rita Rasmussen, SR/WA, R/W-NAC, Real Estate Services Manager
Right-of-Way Management

- ROW Permit and monitor short term activity
- ROW License or Lease for long term occupancy
- ROW or Easement Encroachments
- Utility Coordination
- ROW Violations and Enforcement
- Customer Inquiries
- Vacate ROW & Easements
- Dispose of City-owned Property
- Grant Easement on City-owned property
## ROW Permit Intake Progress

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ROW PERMIT REVENUE GROWTH

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Revenue Opportunities

• Non-Franchise license agreements
  • Fiber, utility companies
• ROW Lease agreements
• Coordinate w/IT on expanding JCN fiber for private users
• Lease & Maintenance duct bank
  • construct during projects for utilities
  • Focus on Flood Control System project
Outreach

• Third Annual Contractor Meeting
  • February 27 @ 9–11am & March 6 @ 1–3pm
• Annual Utility Meetings – February & March
  • Review City Requirements
    ▪ SUDAS
    ▪ Permitting
    ▪ Inspections
    ▪ Curb and Ramps
    ▪ Annual Utility Project Plans
ROW Ordinance Update

• Small Cell Facility Ordinance
  • Iowa legislation limits municipal oversight on placement of equipment and fees
  • FCC recent ruling requires ordinance
  • Targeting mid year for Council approval

• ROW Permit and Use Ordinance
  • Updates current ordinance
  • Outlines process, records, enforcement, short and long term use, equipment and fees
  • Legal and Department review
  • Outreach
  • Targeting fall of 2019 for Council approval
Thank you
To: City Council Infrastructure Committee  
From: Nate Kampman, P.E.  
Subject: Update – Corridor MPO Long Range Transportation Update  
Date: January 15, 2019

Background:  
The Corridor MPO is beginning the process of updating its Long Range Transportation Plan (LRTP) for horizon year 2045. City of Cedar Rapids staff is working through a process to develop a comprehensive list of projects to submit into the Vision Plan for this LRTP update.

Update:  
City of Cedar Rapids staff has begun the process of identifying projects to be included in this update to the Corridor MPO’s LRTP. This involves submitting an application for all major transportation projects (roads, trails, and transit) envisioned during the next 25 years (2020 to 2045). The packet and application form from the Corridor MPO describing this process in more detail is attached to this cover sheet.

City staff from multiple departments will be meeting over the next two months to brainstorm and gather data for all City of Cedar Rapids projects to be included in the Vision Plan. Several planning documents will be used to guide these discussions including the following:
  - Connections 2040 (Current Corridor MPO LRTP)
  - EnvisionCR
  - Highway 100 Corridor Management Plan
  - Highway 30 Area Study
  - Cedar Rapids Transit Study
  - Tower Terrace Road Corridor Management Plan

The deadline for submitting applications to the Corridor MPO is March 11, 2019.

Updates and/or changes to the published LRTP can always be requested by member jurisdictions at any time. MPO staff and the various MPO committees then vet these requests before any change to the plan occurs.

Requested time on agenda: 5 min
**Long Range Transportation Plan 2045**

**Project Application FAQ & Form**

**Why is this application important?**
The Corridor MPO is beginning an update to its Long Range Transportation Plan (LRTP) for horizon year 2045. According to federal requirements, this plan is to be completed by July 2020. MPO member jurisdictions should consider submitting an application for all major transportation projects (roads, trails, and transit) envisioned during the next 25 years (2020 to 2045), especially if a request for federal or state transportation funds is being contemplated. Many state grants require inclusion in the LRTP.

Basic information about each project must be provided in order for MPO staff to properly utilize the transportation model and to score projects that are key to the region’s transportation network, making them eligible to receive federal funds. Please utilize the ten federal planning factors, as listed on the next page, when considering project selection as projects should support those factors as much as possible.

**What do I need to submit?**
Each project should be summarized on a separate one-page application form, provided on page 5. This form can be filled in electronically or printed and completed by hand. The instructions on the following pages provide guidance on how to complete this application.

**If I complete this application, is my project guaranteed funding?**
Unfortunately, there are usually not enough funds to cover every project submitted. In order to be eligible to receive funding each year through the Transportation Improvement Program (TIP), a project must make it into the Connections 2040 Fiscally Constrained Project (FCP) list. Projects meeting basic standards will be included in the Vision Projects (VP) list. Many statewide grants require inclusion in the VP to eligible for funds. Projects will be approved for inclusion into the FCP by the Policy Board with recommendations from the Executive Committee and the Transportation Technical Advisory Committees (TTAC). An objective scoring system to aid in project inclusion to the FCP will be developed by TTAC, and the Executive Committee, and approved by the Policy Board.

**When will funding decisions from this update go into effect?**
The new FCP adopted as part of the Connections 2040 Update will be used by jurisdictions to select projects for funding beginning with TIP year Federal Fiscal Year (FFY) 2025 (October 2024).

**When is the application due?**
The due date for providing applications for road, trail, or transit projects is March 11, 2019.

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**Connections 2040 Project Application Form Instructions**
THE TEN U.S. DOT PLANNING FACTORS
(23. U.S.C. 134 (H)(1).)

1. Support the economic vitality of the United States, the States, nonmetropolitan areas, and metropolitan areas, especially by enabling global competitiveness, productivity, and efficiency;

2. Increase the safety of the transportation system for motorized and nonmotorized users;

3. Increase the security of the transportation system for motorized and nonmotorized users;

4. Increase the accessibility and mobility of people and freight;

5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;

6. Enhance the integration and connectivity of the transportation system, across and between modes throughout the State, for people and freight;

7. Promote efficient system management and operation;

8. Emphasize the preservation of the existing transportation system;

9. Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and

10. Enhance travel and tourism.
APPLICATION GUIDELINES

PROJECT ELIGIBILITY
Future transportation infrastructure and facilities need to be regional in nature—major surface transportation projects that support or otherwise impact the operation of the federally supported transportation system, including, but not limited to, capacity changes, new accesses, and new roadways. Local roads as defined by the Federal Functional Classification system are not eligible unless they provide a benefit to regional infrastructure; eligible examples include local intersections and improvements adjacent to a freeway on and off ramp, or a parallel facility that would provide relief to a regional link.

1. PROJECT NAME
Select a simple name for your proposed candidate project so that it can be easily identified in a master list. The project might be a street or trail name followed by an action or segment identifier. (For example, “Main Avenue – Reconstruction” or “Eden Park Trail – Segment A”.)

2. PROJECT APPLICANT(S)
The jurisdiction responsible for the project should identify itself as the project sponsor. If a candidate project involves more than one jurisdiction, all jurisdictions supporting the project should be listed. Please also include a lead contact person for the project with a phone number and email address.

3. PROJECT DESCRIPTION
Provide a clear, but concise description of the proposed project and its major components. Any specifics about the project are helpful, such as major structures like bridges or tunnels, or major features of the project like roundabouts or multimodal components. Other helpful information, specifically for roadway projects, include the number of thru-lanes and turn lanes (For example, “right turn lane from X ft to intersection”). Information such as the reason for the project, project readiness, or its importance to another project are also helpful.
4. Limits
Define the beginning and endpoint of the proposed improvement.
- If the project is an intersection or trail connection, specify the cross streets or trails connected.
- Provide a basic map of the project. Detailed project planning is not required.
- For an ITS project, describe the geographic coverage area of the project.
- For transit service, define the facility, capital purchase; identify the route for future service and length of service in years. Request for transit support facilities, such as shelters, sidewalks, and benches, must be on non-local roadways and along a transit route.

It is important to note that projects submitted for funding in the TIP need to match the project description limits described in this application. Any part of the project outside of the project limits will not be eligible for funding.

5. Costs
List estimated project costs in 2019 dollars for the proposed improvement. Include all costs such as construction, acquisition, and engineering. A contingency should be applied for transit ranging from 10 to 15 percent. For road and trail projects apply a contingency of 25 percent unless otherwise noted. If a contingency other than the amounts stated above is used please indicate what amount and why. The Transportation Technical Advisory Committee will review any contingency other than those prescribed for the given mode. There is no need to itemize any costs. However, basic costs generated from the Kansas City metro area are provided and should be used as a guideline, deviation from these suggestions is up to engineering judgement.

6. Anticipated Project Completion Timeframe
Please list the expected year of construction. A specific year is not required but an anticipated construction date within three time bands of 2025 to 2029, 2030 to 2034, and 2035 until 2045 should be indicated.

Please fill out an application form for each regional road, trail, or transit project expected until 2045 and return electronically to Brandon Whyte (b.whyte@coridormpo.com) by March 11, 2019.
CONNECTIONS 2040 UPDATE PROJECT APPLICATION FORM

PROJECT NAME: ______
(Please reference Application Guideline #1.)

PROJECT APPLICANT(s): ______

PROJECT LEAD CONTACT INFORMATION: ______
(Please reference Application Guideline #2.)

PROJECT DESCRIPTION: ______
(Please reference Application Guideline #3.)

LIMITS: ______
(Please reference Application Guideline #4. Please ensure a map is provided.)

PROJECT COST IN 2019 DOLLARS: ______
Project cost guidelines based on construction costs in the Kansas City metropolitan area. You may deviate from these numbers as necessary. Itemized cost estimates are not required.

- Bike Trails (10’ Wide concrete): $350,000 - $500,000 per mile
- Trail Tunnel (under 5 lane roadway): $3,000,000
- Trail Bridge (pre-made bridges): approx. $60,000 per 50'
- New roadway construction: $1,000,000 - $3,000,000 per lane mile (depends on topography, drainage, intersections, etc.)
- Roadway resurfacing: $30,000 - $150,000 per lane mile (depending on slurry seal or full 2" mill and overlay)
- New Auto Bridge: $125 per square foot
- Auto Tunnel: $250 per square foot

PROJECT CONTINGENCY PERCENTAGE: ______
(Transit projects may range from 10 - 15%
Road and Trail projects should have a 25% contingency. If some other contingency is used please provide an explanation for review)

PROJECT COST WITH CONTINGENCY: ______
(Please reference Application Guideline #5.)

ANTICIPATED PROJECT COMPLETION TIMEFRAME:
(Please reference Application Guideline #6.)

☐ 2025 TO 2029
☐ 2030 TO 2034
☐ 2035 TO 2045