



**City of Cedar Rapids
Infrastructure Committee Meeting**
Wednesday, January 27, 2016
1:30 pm – 2:30pm
City Hall, 101 First Street SE – Council Chambers

**** Note date, time and location change**

Purpose of Infrastructure Committee:

To enable the City Council to discuss and evaluate in greater detail these specific issues that directly impact the quality and sustainability of the infrastructure of the City of Cedar Rapids.

City Council Committee Members:

Council members *Scott Olson (chair), Ralph Russell and Justin Shields*
Mayor *Ron Corbett* is an ex-officio member of all Council Committees per City Charter Section 2.06

Agenda:

- Approval of Minutes – December 08, 2015
- Postpone February 16th meeting to March 1st

Presentations:

- Transit System – Brad DeBrower, Transit Operations Manager (10 min)
- Sustainability Coordinator Introduction and Proposed Sustainability Plan Development Timeline – Eric Holthaus, Sustainability Coordinator (10 min)

Informational:

- Update – Sanitary Sewer Master Plan – Sandy Pumphrey (3 min)
- Update – Storm Water Master Plan – Garrett Prestegard (3 min)
- Update – Public Works Street Maintenance Projects – Mike Duffy (3 min)
- Update – Paving For Progress – Doug Wilson (3 min)
- Update – Upcoming Utility Projects to be Filed – Bruce Jacobs (3 min)

Recommendations:

- Topsoil Rule – Jon Durst (15 min)

Public Comment: (10 min; 2 min limit per person)

Future Agenda Items:

- Cedar Lake Study Committee (Russell)
- Alliant Energy Street Lights (Olson)
- Conversion Information Update (Poe)
- Assessment Policy
- Undergrounding of Private Utilities

Any discussion, feedback or recommendation by Committee member(s) should not be construed or understood to be an action or decision by or for the Cedar Rapids City Council. Further, any recommendation(s) the Committee may make to the City Council is based on information possessed by the Committee at that point and time.



**City of Cedar Rapids
INFRASTRUCTURE COMMITTEE MEETING MINUTES
City Service Center – Five Seasons Conference Room
Tuesday, December 08, 2015**

Meeting was called to order at 4:00 p.m. by Council member Scott Olson.

Committee Members Present: Council members Scott Olson (chair), Ann Poe and Ralph Russell.

City Director Team: Jen Winter, Public Works Director; Emily Muhlbach, Communications Coordinator; Sandra Fowler, Assistant City Manager Development Services; Steve Hershner, Utilities Director

Presenters: Jim Schnoebelen, Iowa Department of Transportation (IDOT); Sandy Pumphrey, Project Engineer; Doug Wilson, Paving for Progress Project Manager; Mike Duffy, Street Superintendent; Bruce Jacobs, Utilities Engineering Manager

1. Presentation – Highway 100 Project – *Jim Schnoebelen, IDOT*
Coversheet: Update – Highway 100 / Presentation

Update on the construction, aesthetics and schedule of the Highway 100 project was provided. The extension is 8 miles long and is a priority one freeway with four interchanges of four lane divided highway. Phase one from Edgewood Road to Covington Road is currently under construction with Edgewood Road scheduled to be completely open by the end of 2015. Phase two from Edgewood Road to Covington Road has begun and is expected to open by 2016/2017 with completion scheduled for 2019/2020.

The project provides stewardship of Wetlands whereas 28 acres were affected per Final Supplemental Environmental Impact Statement (FSEIS) and compensatory wetlands will be created. There were approximately 6 acres of woodlands acquired for right-of-way per FSEIS and the Iowa DOT acquired approximately 70 acres of adjacent property to be donated to Linn County. Wildlife, Woodland and Wetland mitigation also enhanced wildlife habits for one state threatened butterfly and two turtle species. Road alignment was adjusted to avoid or minimize impact by elevating structures, lengthening bridges, special fencing and “critter crossings”. The Blanding’s turtles will be relocated out of area during construction and returned to a reconstructed farm pond to a natural pond/wetland for Blanding’s turtle.

For water quality, salt tolerant plantings will be used to intercept de-icing salts and roadway runoff will be redirected from areas within and adjacent to preserve water quality.

The Iowa DOT has committed to minimize noise through Quiet Pavement best practices, landscaping for perceived reduced impacts and public outreach and education efforts on noise walls.

EnvisionCR principle of ConnectCR was incorporated for bicycle/pedestrian accommodations with sidewalks, trails and extended shoulders. The Covington Road bridge crossing over IA 100 is structurally sufficient to accommodate addition of a 12-foot separated path within the existing deck section.

Response to Committee questions:

Is project on budget and losses resolved? Yes this is fully funded and currently on budget.

2. Draft Proposal for Storm Water Utility Fee Restructuring – *Sandy Pumphrey*

Coversheet: Recommendation – Stormwater Utility FY17 Fee Structure Proposal / Presentation

The City's stormwater utility fee structure has evolved from a flat fee per property, regardless of size, to a tiered rate system based on contiguous property area, tenancy and whether a property is considered developed or undeveloped. Based on continued public feedback, City Staff is proposing an overhaul of the fee structure for FY17 to a system that is more equitable and incentivizes green infrastructure. Our current ordinance has 15 fee tiers. The top tier is for non-residential properties with 40 or more acres, with a maximum fee of \$261.10/month.

The proposal is for a property's stormwater utility fee to be based on "Equivalent Residential Units" or ERU's, rather than overall property size. The new fee structure will garner approximately \$5.5m for FY17, nearly doubling the funds currently available for storm sewer capital improvements. This new fee structure will also require less ongoing staff time to administer.

Most properties (about 95%) will see a reduction or modest increases consistent with prior rate changes. However, some of our larger property owners with large impervious areas will see significant increases. City Staff is in the process of reaching out to those customers who are most impacted to assist with the transition.

Response to Committee questions:

How did Des Moines and Dubuque get to their rate level? Des Moines has a combined system with rate increases built into their ordinance.

How is the percentage of impervious area determined? Planimetric data that is currently available.

How many properties are most affected and examples? Approximately 100 properties.

Is there a fee reduction or credit for detention basins? No, credit is for retention or infiltration not detention. Detention allows the stormwater to enter the City's stormwater system.

Retention/Infiltration holds stormwater on-site, which is the goal.

Is money going to City projects? Yes funds will be used for capital improvement projects in line with the stormwater masterplan.

3. Approval of Minutes from November 10, 2015 meeting.

ACTION: The minutes were approved as presented. All in favor.

4. Update – Sanitary Sewer Master Plan – *Sandy Pumphrey*

Coversheet: Update – Sanitary Sewer Master Plan

The third workshop was held to validate and calibrate the model based on real world experience and discuss potential policy proposals. The project is currently on schedule. The next consultant/staff workshop is scheduled for February 4, 2016.

Response to Committee questions:

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The study is to identify issues within sanitary system? This document will timestamp what is needed and help prioritize projects and assist in reevaluating in the future.
What are the sanitary budget needs? Ongoing need will be 5-6M (2-2.5M maintain existing assets; 1M I & I reduction; 1-2M invest in gross sewers; 1M targeted growth)

5. Update – Storm Water Master Plan – Garrett Prestegard

Coversheet: Update – Storm Water Master Plan

Next workshop is December 9th and HDR will provide preliminary results for the basin level modeling in the Kenwood watershed. Field investigations have been completed within the Kenwood watershed to collect infrastructure information missing from the GIS database. The HDR Engineering will use this information to develop a 10 year capital improvements plan and a 10 year financial plan which the draft of this plan is on schedule for February submission.

6. Paving for Progress – *Doug Wilson*

Coversheet: Paving for Progress Update

Upcoming public open house dates for December were provided on coversheet along with Public Bid Openings. The Tree and Vegetation Removal Project is a result of long-eared bat requirements to protect their habitat and work on flood mitigation.

Response to Committee questions:

How is it determined which projects have open house discussion and what is the format? Open houses are held for all projects regardless of size or complexity. A presentation about overall program is given and how complete streets dovetails into program. Then project specific presentation provided with breakout sessions to visit with residents one on one to address questions and/or concerns. Have received positive feedback on the format and public appreciates knowing the big picture and how it affects the City.

7. Update – Public Works Maintenance Projects – *Doug Wilson*

Coversheet: Public Works Maintenance Projects – Streets Department

Brief overview of current Street Maintenance projects is as follows:

- 38 ADA ramps completed, 4 currently under way
- Projects for 2016 reviewed and coordinated to begin in spring
- Alley blading and shoulder work using recycled millings
- Collection of 2015 sweeper dumps diverted from landfill and used on slope improvements along Seminole Valley Trail
- Installed snow fence
- One major snow event
- Two minor frost/prepare brine events

Response to Committee questions:

How many curb repair contracts for next year? One planned. New data collection includes curb condition. Can add second if needed

How is it determined which curbs to do? Dependent on where the street falls within the Paving for Progress, citizen feedback and street supervisors/crew.

Where are we at with one-way conversions? Waiting for preliminary plan from railroad on their cost of constructing crossing gates.

8. Update – Upcoming Utility Projects to be Filed – *Bruce Jacobs*

Coversheet: Upcoming Utilities Department Projects – January, February, March

Updates from previous month report are the WPCF Roof Replacements filing moved to January 26 and NWTP Roof Replacement filing moved to February 9. Filing January 26 for Horizontal Collector Well 5 Pump House, public hearing February 9; filing February 9 for WPC Operations & Maintenance Building HVAC Upgrade, public hearing February 23; filing February 9 for Water Division Electric Metering Upgrade, public hearing February 23. All significant current water main work is planned in conjunction with Paving for Progress projects.

Response to Committee questions:

Where is Horizontal Collector Well 5 located and will this replace some vertical wells? Located in Seminole Valley and yes this may obsolete two verticals. One nearby vertical well will remain in service as it is a good producer.

9. Public Input

- a. Regarding Stormwater Utility fee, will there be a reduction or credit offered for reduction of pesticides for better water quality? Noted.
- b. Ann Poe thanked the staff and fellow Council Members noting that she will be chair of the Development Committee. Council Member Justin Shields will be joining the Infrastructure Committee beginning January 2016.

10. Items for Future Agenda

- a. Transit System – January 2016
- b. Alliant Energy Street Lights (Olson)
- c. Conversion Information Update (Poe)
- d. Assessment Policy
- e. Undergrounding of Public Utilities

The meeting was adjourned at 4:55 p.m.

Respectfully submitted,
Kathy Holmes, Administrative Assistant I, Public Works Department



To: City Council Infrastructure Committee
From: Brad DeBrower, Transit Manager
Subject: Update – Cedar Rapids Transit System
Date: January 6, 2016

Background:

Cedar Rapids Transit has been invited to provide a presentation of the fixed-route transit system.

Project Description:

A PowerPoint presentation will be given that provides a summary of the existing fixed-route transit service, bus replacement needs, the new transit app, and the metro public transit study.

Update:

35T

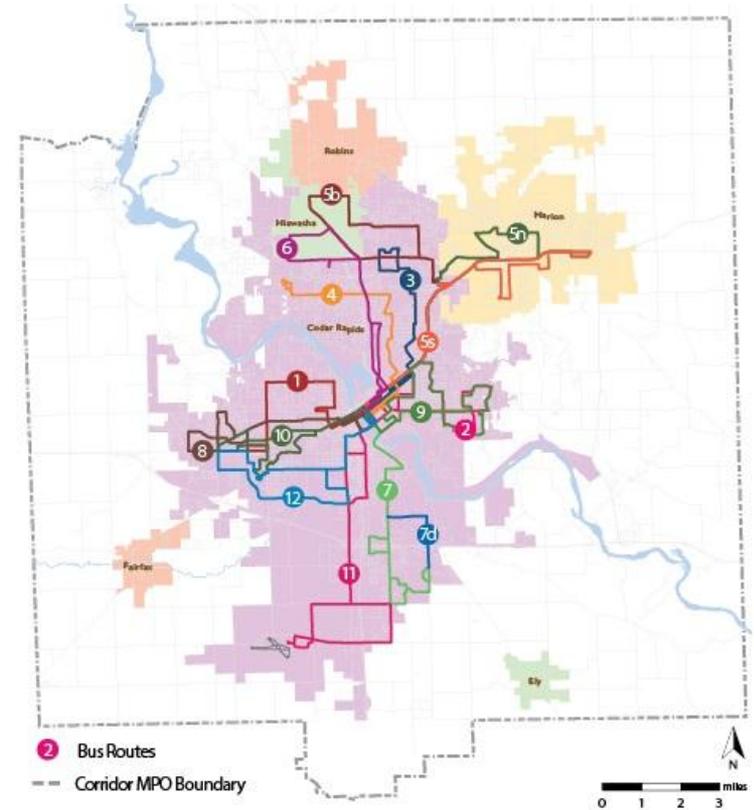
Requested time on agenda: 10 min

City of Cedar Rapids Transit Division



FY16 Transit Services

- **CR Transit fixed-route bus service**
 - 14 wheelchair-accessible bus routes with service provided in Cedar Rapids, Hiawatha and Marion
 - Weekdays: 5:15a to 7:00p
 - Saturdays: 7:55a to 5:00p
 - Most routes are one hour long with peak service every ½ hour on the busiest routes
 - All routes connect for passenger transfers at the Cedar Rapids Ground Transportation Center



FY16 Transit Services

- **CR Transit fixed-route bus service**
 - The Transit Division is part of Development Services and reports to the Assistant City Manager
 - \$9.0M budget
 - 55 FTEs
 - 42 drivers
 - 4 service workers
 - 3 information booth clerks
 - 3 operations supervisors
 - 2 administrative coordinators
 - 1 manager



Other Transit Services Supported by the City of Cedar Rapids

- **ADA Paratransit Service (required)**



- \$612K service contract with Linn County LIFTS
- It is an ADA requirement to have door-to-door paratransit service to complement the fixed-route bus service
 - Same service area, days, hours, etc.



- **After-hours service (optional)**

- \$408K service contract with Horizons/NTS
- Service provided for work, school, daycare, job training and life-skills trips when the fixed-route bus service doesn't operate.



Cedar Rapids Transit

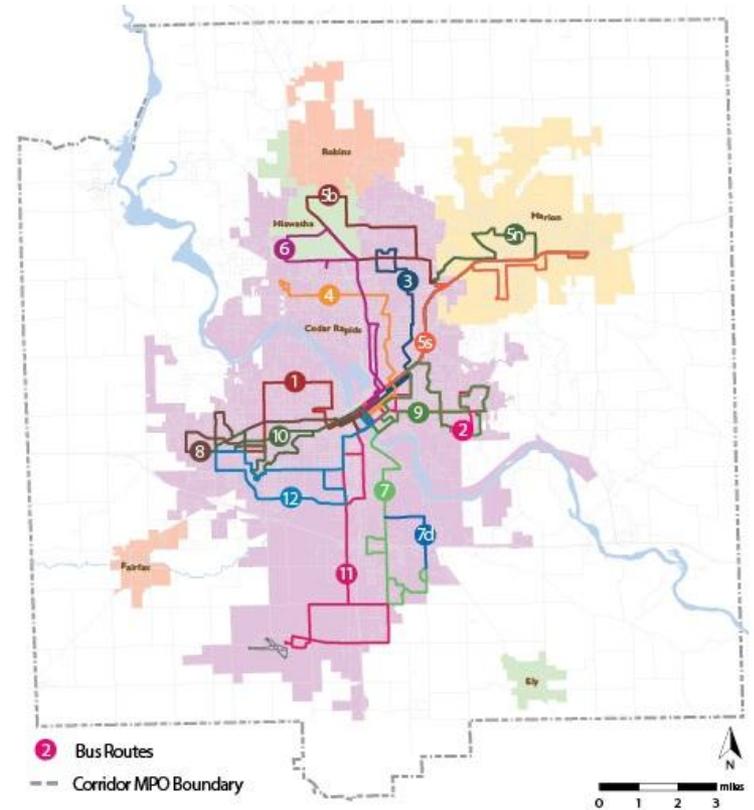
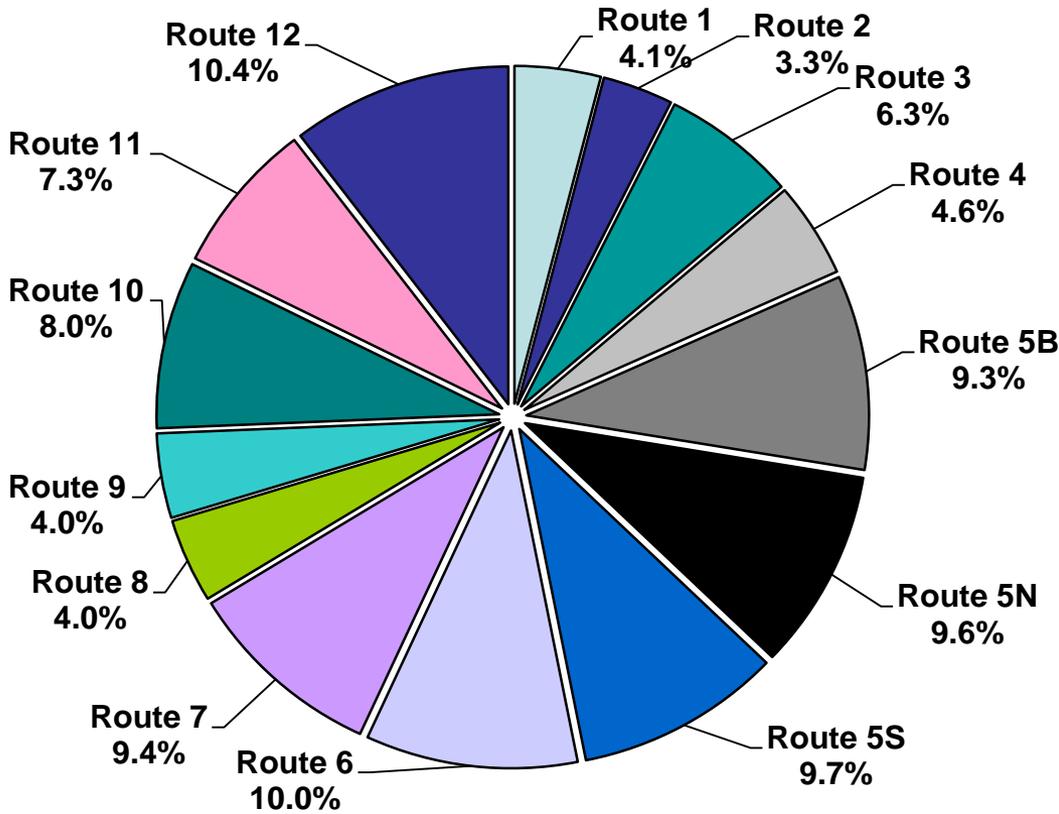
- FY15 ridership was 1,371,105 rides
 - 9% increase over the previous fiscal year
- Ridership Averages
 - Approximately 4,750 Rides/Weekday
 - Approximately 3,000 Rides/Saturday
- Ridership Percentages
 - Adults (63%)
 - Disabled (19%)
 - Elderly (4%)
 - Students (11%)
 - Children (3%)





Transit

FY15 Ridership % by Route



Cedar Rapids Transit Cash Fares

- Cash Fares
 - Full Fare (Adults) - \$1.50
 - Half Fare - 75¢
 - Students
 - Seniors (age 65 & over)
 - Passengers with Disabilities
 - Medicare Passengers
 - Income Based Passengers
 - Children (age 5 & under) - free
- Day Passes (all passengers) - \$3.00
- Free Saturdays (all passengers)



The sign features the Cedar Rapids City of Five Seasons logo at the top, followed by the 'CR Transit' logo. Below this is a green header with 'CASH FARES' in white. The main body of the sign lists fares: DAY PASSES (All Passengers) at \$3.00, FULL FARE at \$1.50 (with a sub-bullet for Adults), and HALF FARE at 75¢ (with sub-bullets for Students, Seniors, Disabled, Medicare, and Income Based passengers). It also lists CHILDREN (Age 5 & Under) as FREE (with a sub-bullet for age 13 and older) and SATURDAYS (All Passengers) as FREE. A green footer contains the text: 'Drivers do not provide change and do not accept checks.'

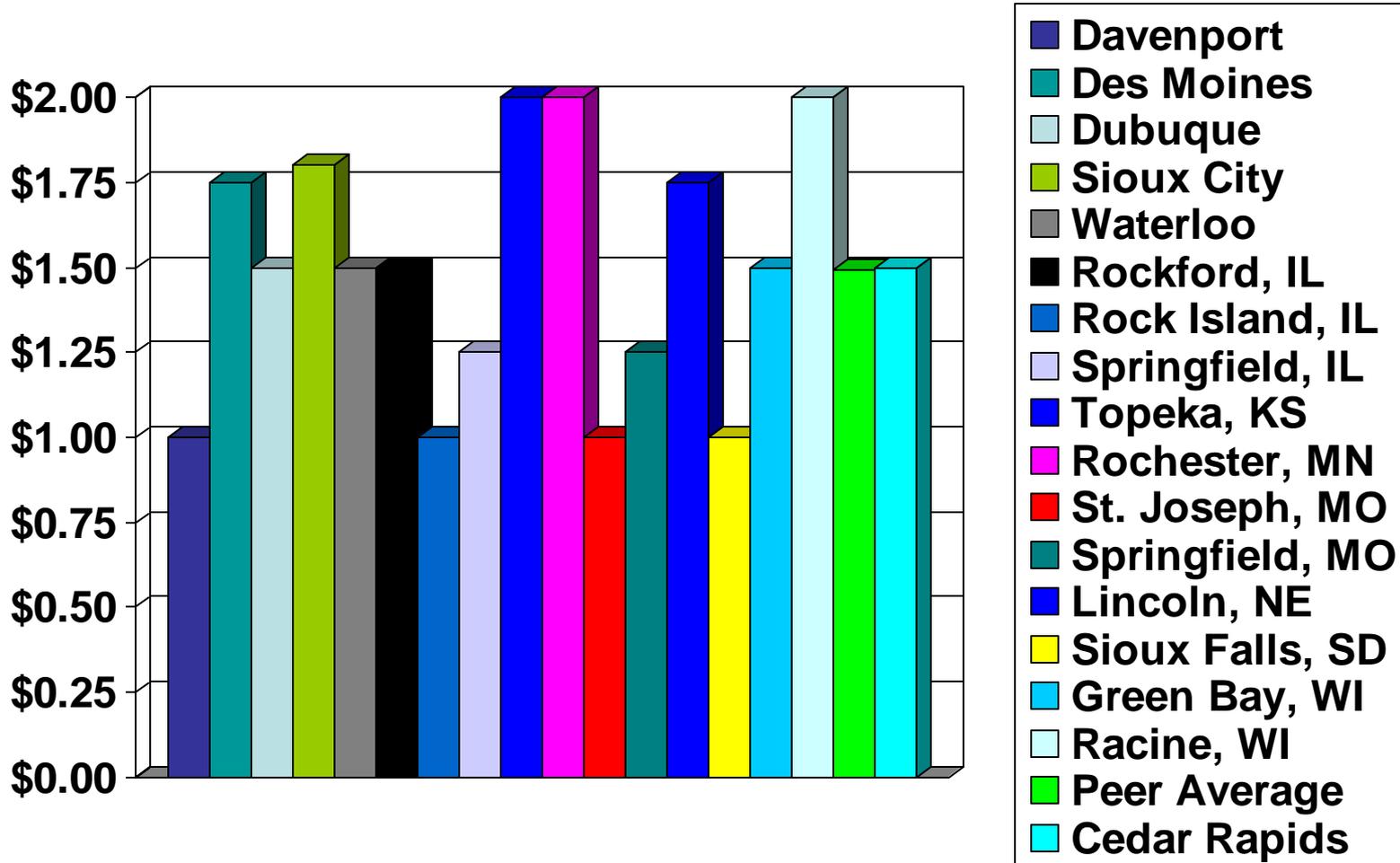
DAY PASSES (All Passengers) . . .	\$3.00
FULL FARE	\$1.50
• Adults	
HALF FARE75¢
• Students (With Valid School ID Card)	
• Seniors (Age 65 & Over)	
• Disabled (With Valid Half-Fare ID Card)	
• Medicare (With Valid Medicare Card)	
• Income Based (With Valid Half-Fare ID Card)	
CHILDREN (Age 5 & Under) . . .	FREE
• Must be with a passenger 13 yrs. or older.	
SATURDAYS (All Passengers) . .	FREE

Drivers do not provide change
and do not accept checks.



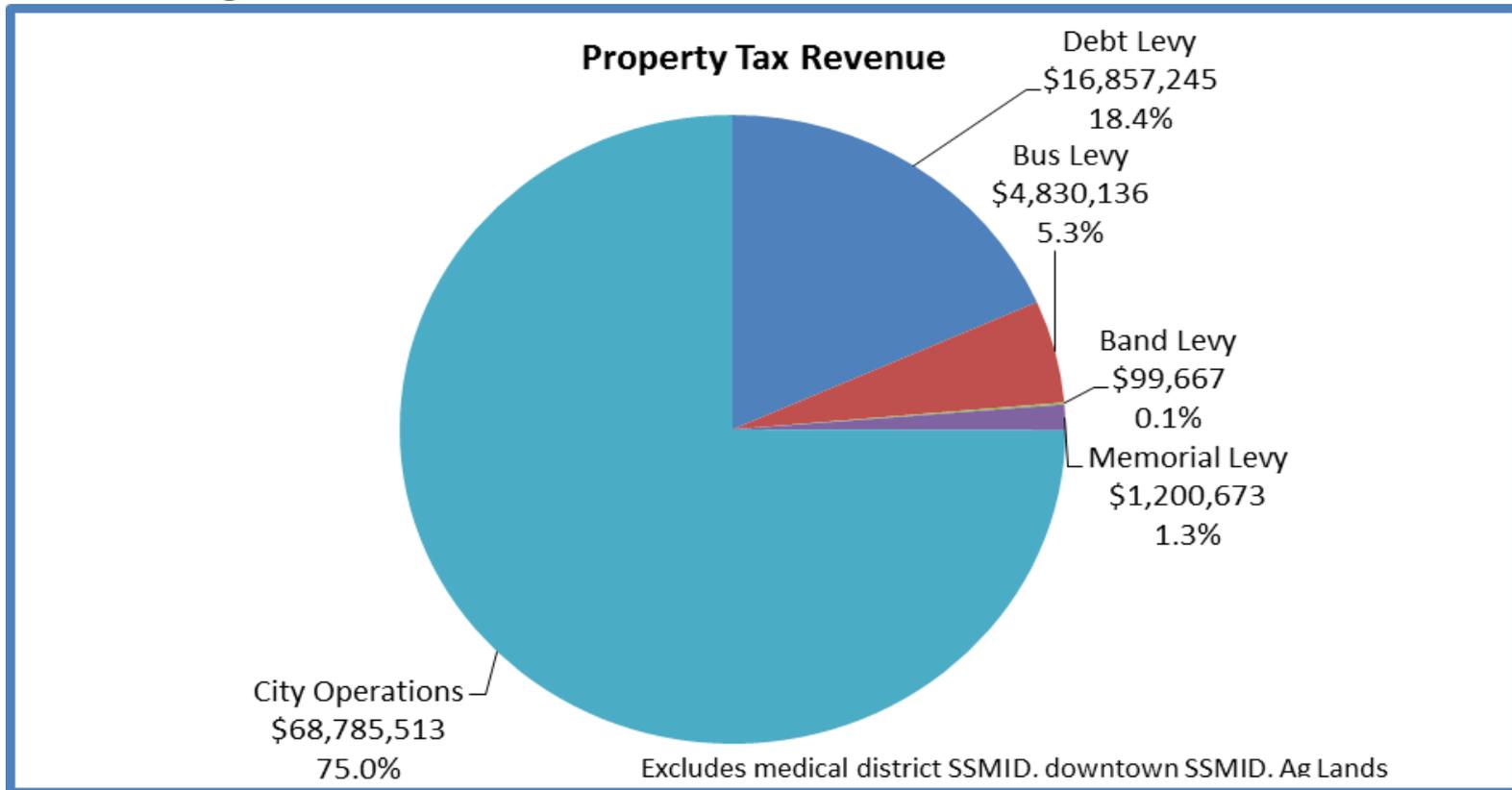
Transit

Adult Fares Comparison



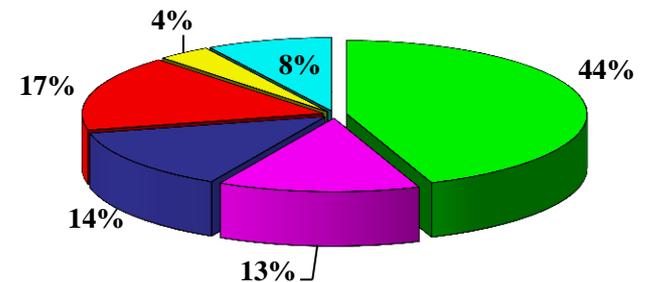
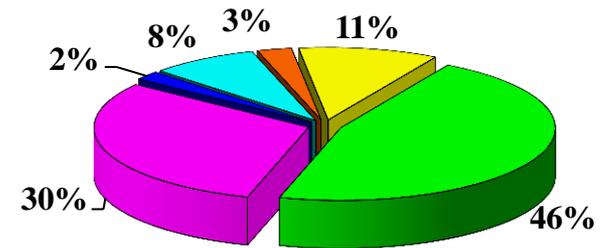
FY16 Budget

Overall property taxes (\$91.8M) were proposed to be allocated by the following breakdown:



CR Transit FY16 Budget Overview

Revenues		
Cedar Rapids Property Tax Levy		\$4,830,136
FTA and State Operating		\$3,185,000
Federal Capital		\$205,760
Charges for Services		\$851,000
Marion & Hiawatha		\$270,600
Transfers In and Misc		\$1,100,783
Total Revenue		\$10,443,279
Expenditures		
Personal services		\$4,385,740
Discretionary		\$1,340,850
Fleet & Facilities		\$1,343,305
Non-Discretionary		\$1,652,388
Capital Outlay		\$352,000
Transfers Out		\$834,058
Total Expenditures		\$9,908,341



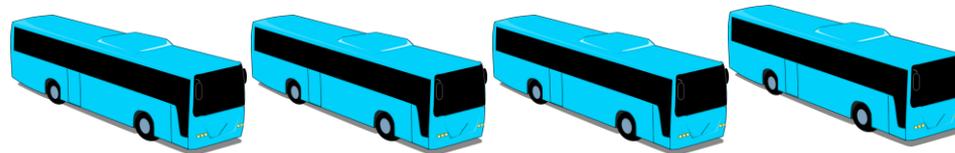
Statewide Public Transit Vehicle Replacement Rankings



- All 1,600+ public transit vehicles compete for funding under the IDOT's Public Transit Equipment and Facilities Management System (PTMS)
- Vehicles must be in the current year TIP
- Vehicles are ranked based on their mileage and age and must meet their mileage or age threshold to be eligible for funding
- Vehicles must meet ADA standards unless the transit agency can justify the vehicle to be "non-ADA"
- Vehicles are funded at 80% or 85% of the IDOT total cost based on the IDOT's Programming Guidance

Statewide Bus Replacement Needs

- \$120 Million needed to replace public transit buses in Iowa that exceed the FTA useful life replacement standards
 - 910 transit buses or 56% of the statewide inventory exceed the FTA useful life replacement standards
- Federal funding for bus replacement has decreased significantly under the MAP-21 funding legislation
- \$2 Million MAP-21 plus \$3 Million ICAAP funds were available for a statewide request of \$36 Million in FY13 bus replacement needs
- At current funding levels, it will take several years before we get another vehicle funded through the PTMS process.



Iowa Public Transit Association Request for Funding

- IPTA has been asking for \$5 Million in bus replacement funding from the State of Iowa
- The transit industry (including IPTA) continues to lobby for the pre-MAP-21 federal funding levels for bus replacement and the equitable distribution of funds between states
- A new multi-year federal transportation program was recently authorized, so we are awaiting the details regarding funding levels.



Transit Fleet

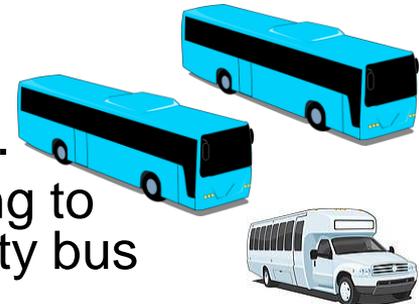
- 30 HD Fixed Route Buses
- 22 buses needed during peak hour service
- New Buses
 - 22 new Gillig buses have been purchased from 2009 to 2014
 - 32 seats + 2 wheelchair positions
 - Equipped w/ bike racks for 2 bikes
 - Need to replace 8 buses that far exceed their 12-year/500,000 mile useful life threshold
 - Goal: replace 2 buses/year on a 15-year cycle to maintain an average age of less than 8 years



Corridor MPO Transit Funding



- The Corridor MPO will begin providing 20% of available Surface Transportation Program (STP) federal funding to transit projects beginning in FY21.
- This will amount to approximately \$1M per year for transit vehicles or other eligible transit capital projects.
- STP funds cannot be used for transit operations.
- 35' heavy-duty fixed-route transit buses are currently programmed to cost \$424,000 and medium-duty paratransit buses cost \$168,000.
- Cedar Rapids Transit will be requesting funding to replace 2 heavy-duty buses and 1 medium-duty bus per year with the CMPO funds.
- That would allow us to keep our fixed-route fleet current with an average age of 7 ½ years, but does not allow for expanding the fleet or providing additional service.



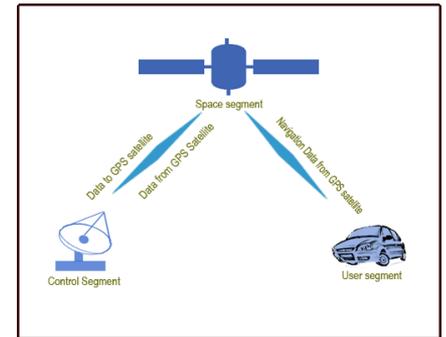
Bus Stops

- Approximately 1050 bus stops
- All bus stops are posted with signs and are typically located every 2-3 blocks along a bus route
- 72 passenger shelters are maintained in Cedar Rapids with additional shelters in Hiawatha, Marion and at Kirkwood.



GPS Mobile App

- Where's the bus?
 - There's an app for that!
 - Go to www.ridecrt.com to track your bus or download the app to your smartphone.



**WAIT LESS. WORRY LESS.
RIDE MORE!**

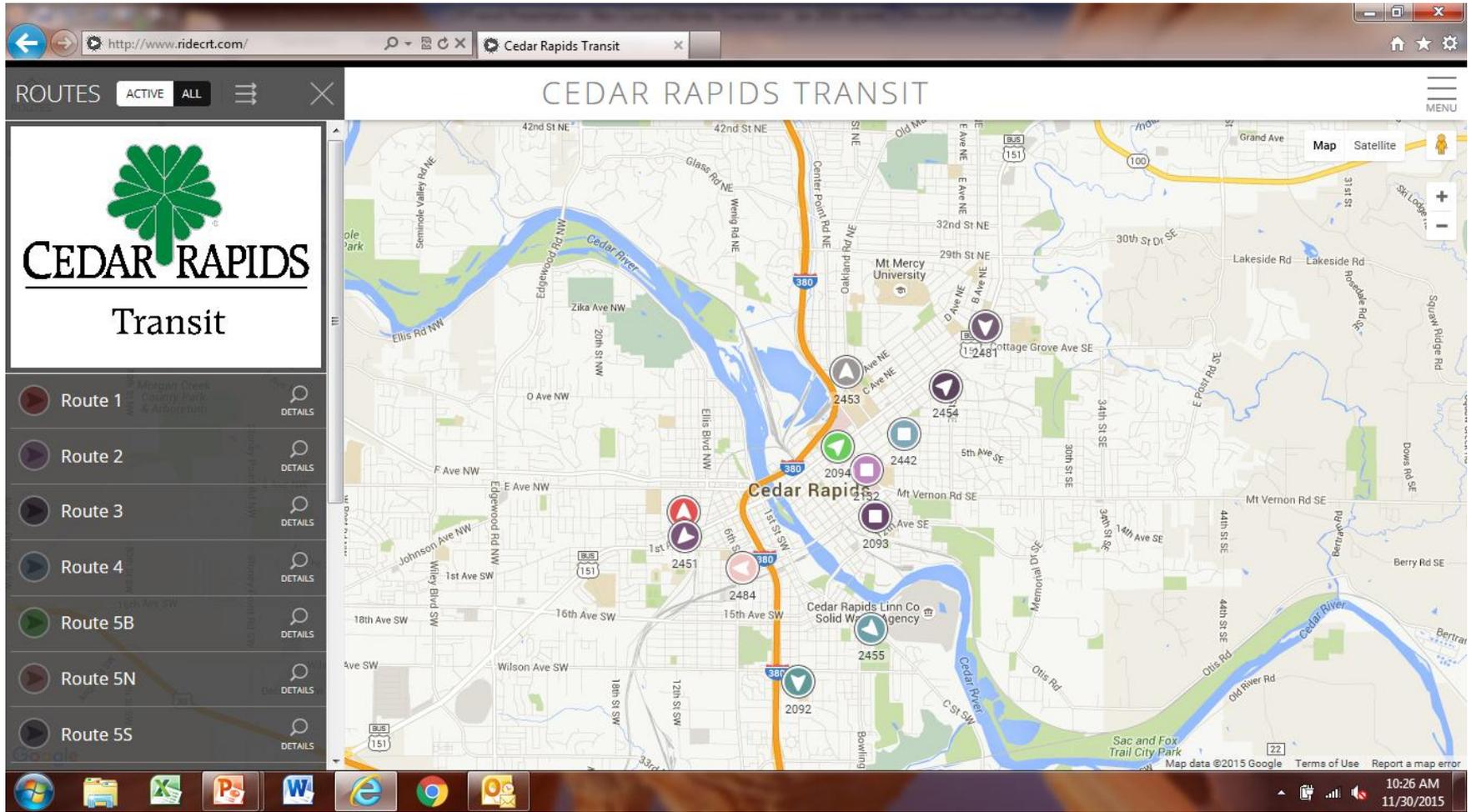
LIVE BUS TRACKING NOW AVAILABLE AT
ridecrt.com



CEDAR RAPIDS
City of Five Seasons®

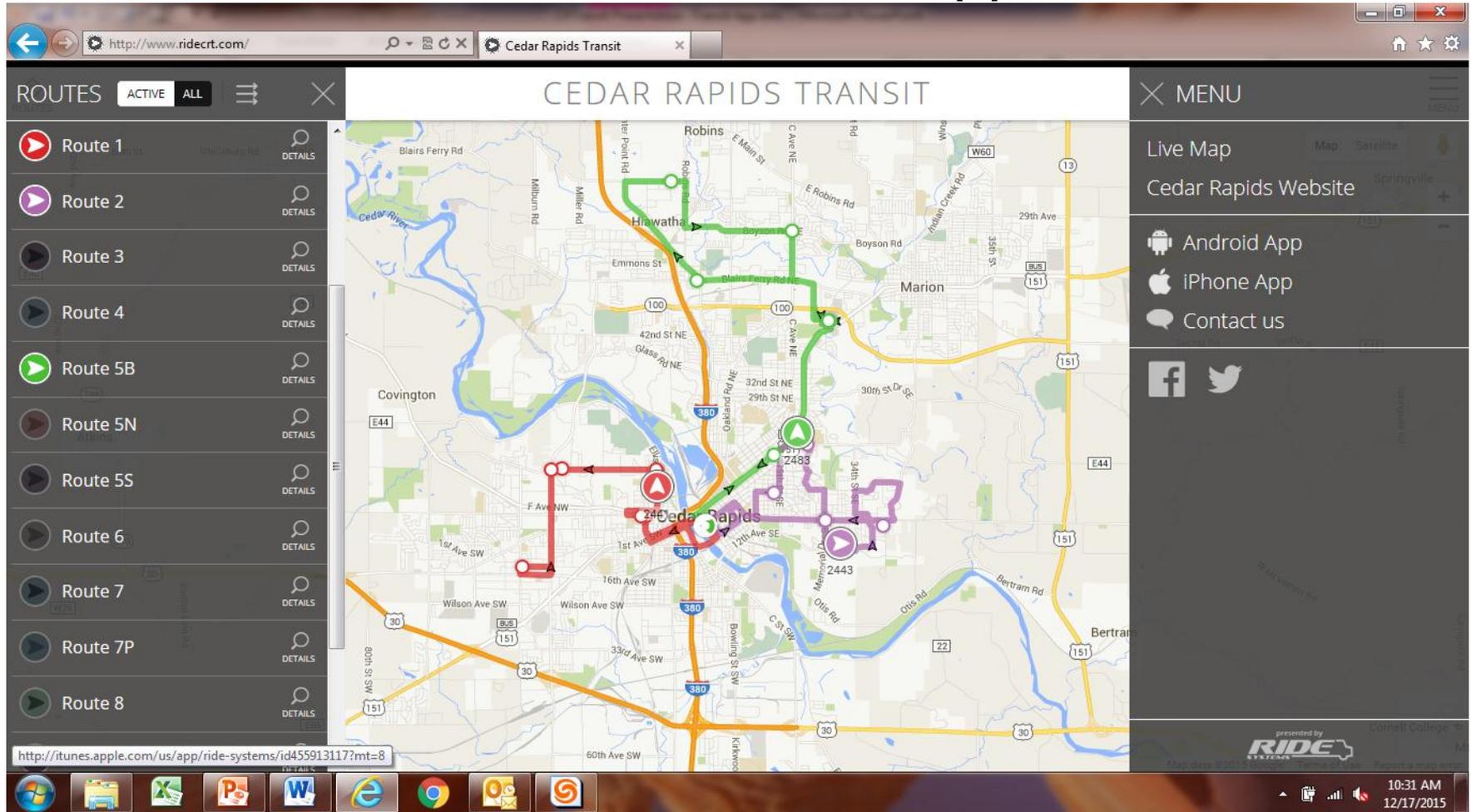


Main Screen View



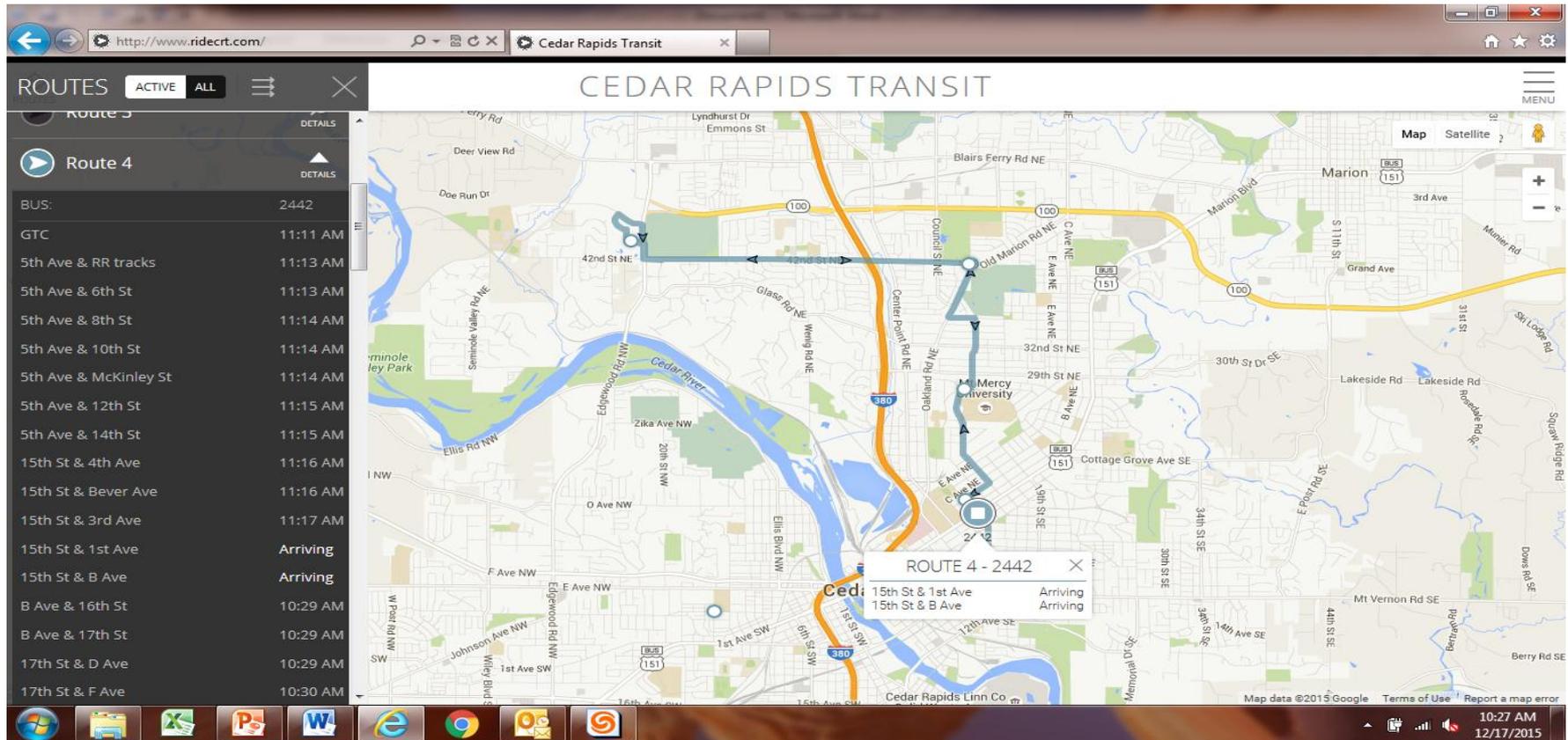
The screenshot displays the Cedar Rapids Transit website interface. At the top, the browser address bar shows the URL <http://www.ridecrt.com/>. The page title is "CEDAR RAPIDS TRANSIT". On the left side, there is a navigation menu with the Cedar Rapids Transit logo and a list of routes: Route 1, Route 2, Route 3, Route 4, Route 5B, Route 5N, and Route 5S. Each route has a "DETAILS" link. The main content area features a map of Cedar Rapids, Iowa, with various transit routes overlaid in different colors. The map includes street names, landmarks like Mt. Vernon University, and the Cedar River. The bottom of the browser window shows the Windows taskbar with icons for Internet Explorer, Google Chrome, and other applications, along with the system clock showing 10:26 AM on 11/30/2015.

Main Screen with Selected Bus Routes and Menu for App Downloads



The screenshot displays the Cedar Rapids Transit website interface. At the top, the browser address bar shows <http://www.ridecrt.com/>. The main content area features a map of Cedar Rapids with several bus routes highlighted in different colors: Route 1 (red), Route 2 (purple), Route 3 (black), Route 4 (black), Route 5B (green), Route 5N (black), Route 5S (black), Route 6 (black), Route 7 (black), Route 7P (black), and Route 8 (black). A sidebar on the left lists these routes with 'ACTIVE' and 'ALL' filters. A 'MENU' sidebar on the right includes options for 'Live Map', 'Cedar Rapids Website', 'Android App', 'iPhone App', and 'Contact us', along with social media icons for Facebook and Twitter. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the time as 10:31 AM on 12/17/2015.

Main Screen with Bus Stop Details and Arrival Times



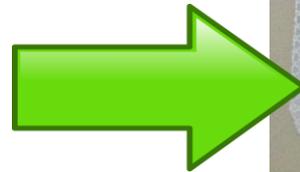
The screenshot displays the Cedar Rapids Transit website interface. On the left, a sidebar shows the 'ROUTES' menu with 'Route 4' selected. Below the menu is a list of bus stops and their arrival times. The main area features a map of Cedar Rapids with a blue route line for Route 4. A pop-up window for 'ROUTE 4 - 2442' is visible over the map, showing arrival times for two stops: '15th St & 1st Ave' and '15th St & B Ave', both marked as 'Arriving'.

Stop	Arrival Time
BUS: 2442	
GTC	11:11 AM
5th Ave & RR tracks	11:13 AM
5th Ave & 6th St	11:13 AM
5th Ave & 8th St	11:14 AM
5th Ave & 10th St	11:14 AM
5th Ave & McKinley St	11:14 AM
5th Ave & 12th St	11:15 AM
5th Ave & 14th St	11:15 AM
15th St & 4th Ave	11:16 AM
15th St & Bever Ave	11:16 AM
15th St & 3rd Ave	11:17 AM
15th St & 1st Ave	Arriving
15th St & B Ave	Arriving
B Ave & 16th St	10:29 AM
B Ave & 17th St	10:29 AM
17th St & D Ave	10:29 AM
17th St & F Ave	10:30 AM

GPS Mobile App

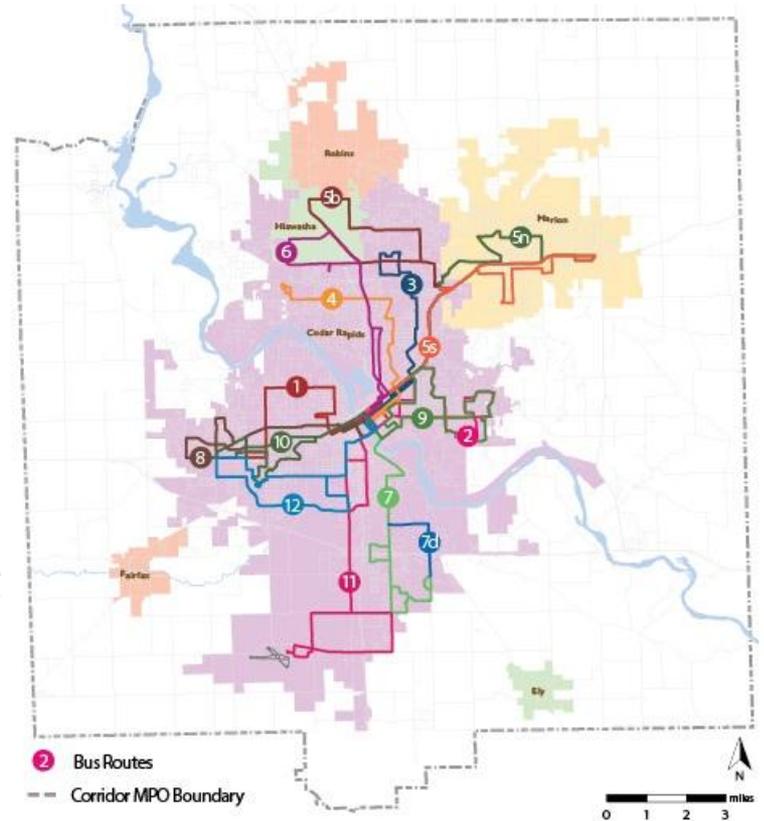


- No smartphone? Oh, no! 
- Not a problem.
 - Each bus stop will have a unique crtr number that can be texted to 41411.
 - A text reply is returned to the sender with the next bus arrival times at that bus stop.



Corridor MPO Metro Public Transit Study

- The Corridor Metropolitan Planning Organization (CMPO) is responsible for long range transportation planning within the metro planning boundary.
- The Corridor MPO has hired a planning consultant, WSP/Parsons Brinckerhoff, to conduct a comprehensive analysis of the metro transit system.
- This study will analyze and determine what is needed to better serve the current and future needs within the metro area.
- The study will be completed by early summer of 2016.



Facilities

- Ground Transportation Center (GTC)
 - 450 1st St SE
 - Renovated after the 2008 flood and re-opened Dec. 2013



Additional GTC Photos



Facilities

- CR Transit Bus Garage
 - 427 8th St NW
 - Replaced after the 2008 flood and opened May 2013



Questions?





To: City Council Infrastructure Committee
From: Steve Hershner, Utilities Director
Subject: Update – Introduction of Eric Holthaus, new Sustainability Coordinator
Date: January 19, 2016

Background:

Our City Vision states, “Cedar Rapids is a vibrant urban hometown – a beacon for people and businesses invested in building a greater community now and for the next generation.”

Project Description:

35T

Update:

Introduce Eric Holthaus, new City of Cedar Rapids Sustainability Coordinator, who will provide brief comments on this new position and initial areas of focus for our sustainability program.

Requested time on agenda: 5 min



To: City Council Infrastructure Committee
From: Eric Holthaus, Sustainability Coordinator
Subject: Update – ITEM
(Presentation) “Introduction of Sustainability Coordinator and proposed sustainability plan development timeline”
Date: January 25, 2016

Background:

Eric Holthaus, Cedar Rapids’ new sustainability coordinator started work on November 30. We want to formally introduce him to the Infrastructure Committee and provide a summary of planned actions.

Project Description (Presentation):

The sustainability coordinator will begin with a brief personal introduction, then provide a presentation on our proposed sustainability plan development timeline, and finally seek Infrastructure Committee member feedback.

Update:

PowerPoint presentation attached.

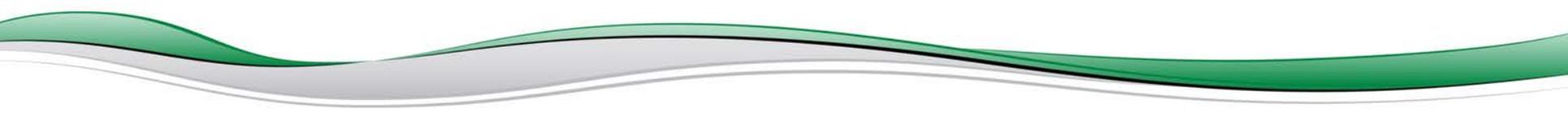
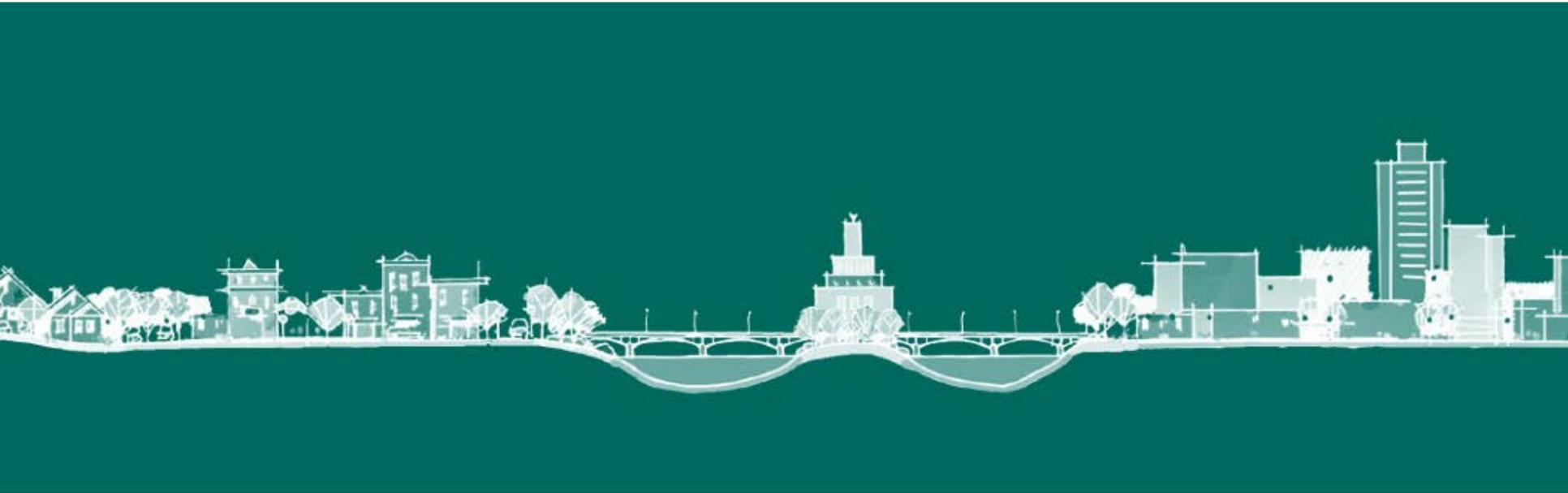
Requested time on agenda: 10 min

Sustainability coordinator introduction and proposed sustainability plan development timeline

Infrastructure Committee

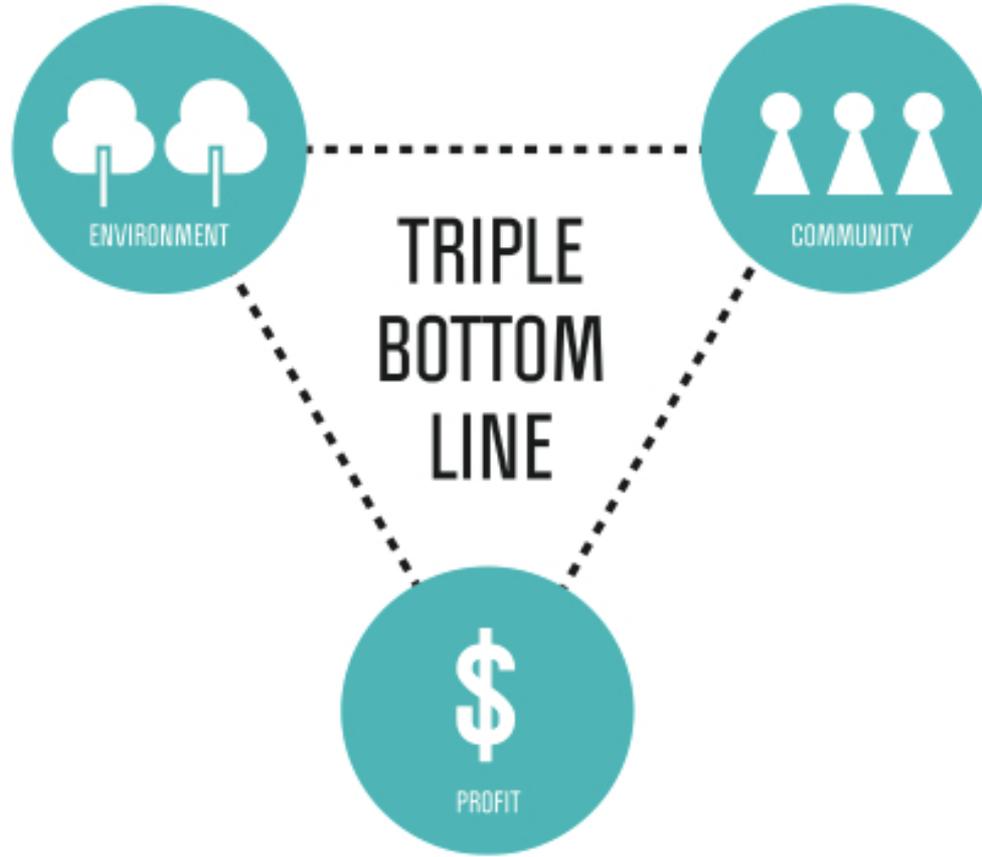
January 25, 2016

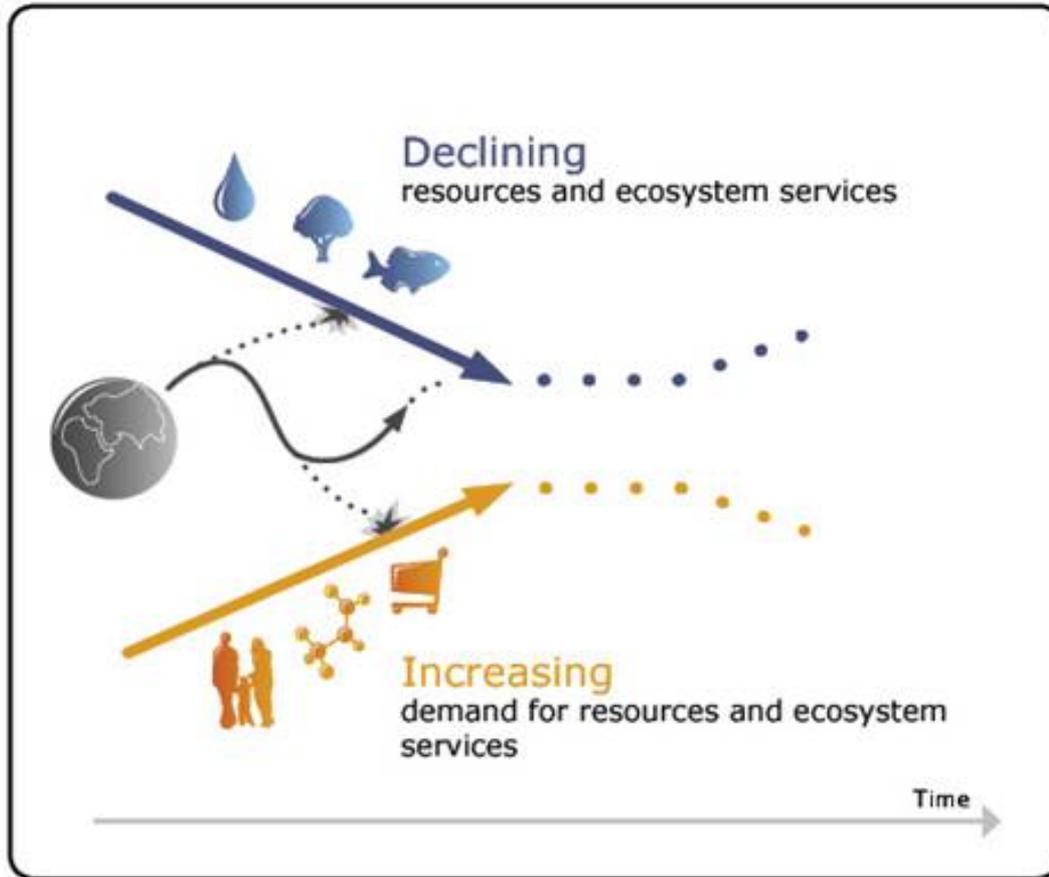
We will model sustainability.



We already do it.

- WPC Nutrient Reduction and Solids Facilities Plan
- Complete Streets
- Electrical sub-metering at WPC





We will raise the bar.

- Build on successes and support
- Leverage existing frameworks
- Survey employees
- Stride toward zero waste
- Support existing momentum
- Build municipal sustainability plan

STAR framework

- Drinking Water Quality
- Safe Wastewater Management
- Housing and Transportation Costs
- Transportation Mode Split
- Transportation Safety
- Climate Adaptation, Vulnerability Assessment*
- Greenhouse Gas Emissions*
- Renewable Electrical Energy Supply*
- Total Solid Waste*
- Third Grade Reading Proficiency
- High School Graduation Rate & Graduate Rate Equity

- Environmental Justice, Risk and Exposure*
- Equitable Access & Proximity to Foundational Community Assets*
- Businesses
- Employment
- Median Household Income
- Living Wages
- Food Security and Assistance
- Access to Healthful Food*
- Violent Crime Rate
- Designated Green Infrastructure*

* Flexible Indicators (Yes/No)

Sustainability means

- Resource stewardship
- Long-term decision-making
- Interconnections
- Institutional and personal evolution
- More value in our work and lives
- Leadership inside and out

What is missing?

Are there any suggestions or recommendations that you have to improve our efforts?



To: City Council Infrastructure Committee
 From: Sandy Pumphrey, PE
 Subject: Update – Sanitary Sewer Masterplan
 Date: January 27, 2015

Background:

The Public Works Department is in the process of updating the Sanitary Sewer Master Plan. The Sanitary Sewer Master Plan will be used to assess the function of the City’s sanitary sewer system, and will aid in the selection of capital improvement projects and policy recommendations. The following proposed milestones and schedule have been established for updating the Sanitary Sewer Master Plan:

Milestones	Status or Schedule
Identify known issues where capital improvement projects may be warranted.	Complete
Select an engineering consultant to complete the Sanitary Sewer Master Plan update.	Complete
Develop professional services agreement.	Complete
Engineering consultant will review and analyze information provided by the City.	Complete
Engineering consultant will complete a modeling update of the City’s sanitary sewer collection system.	06/15 to 03/16
Engineering consultant will submit a draft of the updated Sanitary Sewer Master Plan.	03/16
Adopt Sanitary Sewer Master Plan.	06/16

Workshop #3 was held on November 12, 2015. The following items were discussed at the meeting:

- Reviewed and affirmed model software selection and inputs
- Reviewed and discussed preliminary results of macro-level model and how they aligned with modeling objectives.
- Discussions re: existing system and deficiencies
- Discussions re: improvement prioritization, proposed policy updates and other considerations.

Project Description:

The Sanitary Sewer Master Plan will be used to assess the function of the City’s sanitary sewer system, and will aid in the selection of capital improvement projects and policy recommendations.

Update:

The project is currently on schedule. Modeling work is in full swing and preliminary results have been reviewed. Discussion re: potential policy proposals have also been considered for further research and viability determinations. This phase of the work is due to be completed by March 2016. The next consultant/staff workshop is scheduled for February 4, 2016.



To: City Council Infrastructure Committee
 From: Public Works Department
 Subject: Update – Stormwater Master Plan
 Date: January 19, 2016

Background:

The Public Works department is in the process of updating the Stormwater Master Plan. The Stormwater Master Plan will be used to assess the function of the City’s stormwater management system, and will aid in the selection of capital improvement projects and policy recommendations. The following proposed milestones and schedule have been established for updating the Stormwater Master Plan:

Milestones	Status or Schedule
Assemble and review existing data and reports to identify where additional information is needed.	Complete
Identify known issues where capital improvement projects may be warranted.	Complete
Select an engineering consultant to complete the Stormwater Master Plan update.	Complete
Develop professional services agreement.	Complete
Engineering consultant will review and analyze information provided by the City. The engineering consultant will use this information to recommend capital improvement projects for the FY2017 budget.	Complete
Engineering consultant will complete a modeling update of the City’s stormwater management system.	06/15 to 03/16
Engineering consultant will submit a draft of the updated Stormwater Master Plan.	03/16
Adopt Stormwater Master Plan.	06/16

Project Description:

The City has contracted HDR Engineering and Anderson-Bogert Engineers and Surveyors to update the City’s Stormwater Master Plan. The update will include modeling the City’s stormwater management system, developing a 10 year capital improvements plan, developing a 10 year financial plan, and providing policy recommendations.

Update:

Workshop #4 for the Stormwater Master Plan update was held between HDR Engineering, Anderson-Bogert and City staff on Wednesday, December 9th. At the workshop, HDR provided an overview of their efforts for the basin level modeling in the Kenwood watershed. The results are being used to validate previously identified capital improvement projects and assess the severity of issues within the City’s stormwater management system. HDR Engineering will use this information to develop a 10 year capital improvements plan and a 10 year financial plan. Workshop #5 for the Stormwater Master Plan is scheduled for Wednesday, January 27th.



To: City Council Infrastructure Committee
From: Michael Duffy
Subject: Update – Street Maintenance Projects
Date: January 11, 2016

Background:

Monthly street maintenance information intended to provide the status of work being performed by City crews.

Projects Description:

- Snow response/Ice removal
- Pothole patching requests
- Seminole Valley Trail project

Update:

The most current information will be provided at meeting.



To: City Council Infrastructure Committee
From: Doug Wilson, Paving for Progress Program Manager
Subject: Update – Paving for Progress
Date: January 11, 2016

Background:

Monthly update intended to provide status for upcoming public open houses and public bid openings And City staff construction projects for 2016.

Project Description:

Project Specific Public Meetings and Projects Bidding and list of projects for City Staff in 2016

Update:

Public Open Houses:

- January 28th** 5-6:30PM: 16th Avenue SE from 4th Street to 5th Street
- February 2nd** 5-6:30PM: Mt Vernon Road from Memorial Drive to Vernon Drive
- February 4th** 5-6:30PM: Edgewood Road SW Improvements from E Avenue to F Avenue
- February 9th**: Memorial Drive SE from Mt Vernon Road to McCarthy Road
- February 10th** 5-6:30PM: 8th Avenue SW from L Street to 7th Street

Public Bid Openings:

- January 27th**: 42nd Street NE from I-380 to Wenig Road
- February 3rd**: West Post Road NW from Plainview to E Avenue
- February 10th**: B Avenue NW from Highland Drive to 8th Street
- February 24th**: Oakland Road NE from H Avenue to J Avenue

2016 List of City Staff Projects:

- | | |
|--|--|
| 34th Street NE from 1st Avenue to w/o F Avenue | F Avenue NW from 4th Street to Ellis Blvd |
| Bayberry Drive SW from Cameo Lane to Edgewood Road | F Avenue NE from Estroy Drive to Old Marion Road |
| Bramble Road SW from 29th Avenue to 33rd Avenue | Hazel Drive NE, Elmhurst to House No.1247 |
| Burch Avenue NW from 24th Street to 19th Street | Madison Street NE from Glass Road to 29th Street |
| Cameo Lane SW from Pebble to 33rd Avenue | Pebble Drive SW from Chapel Lane to Bramble Road |
| Carriage Drive SW from Bramble to Chapel | 3rd Street SW from 16th Avenue to 19th Avenue |
| Chapel Drive SW from 29th to Bayberry | |
| Coral Lane SW from Cameo to Eden Lane | |
| Eden Lane SW from Bayberry to 33 rd | |

Upcoming Utilities Department Projects Anticipated To Have Plans and Specifications
Filed – February, March, April
Report to Council Infrastructure Committee on 1-27-2016

Filing Plans and Specifications

Water and WPC Plant Projects

Filing February 9 – Seminole River Bank Armoring (6250045). River bank erosion is threatening the raw water transmission main and eroding the roadway access in several locations along the Seminole Well Field. The project will involve the stabilization of approximately 1,500 ft. of river bank near Seminole Well 2 and Collector Well 4. The Engineer’s opinion of probable cost is \$340,000.

Filing February 9 – WPCF Roof Replacements (615190). Flat roofs on the Oxygen Generation Building, Maintenance Building, Main Lift Station, and Final Lift Station at the WPCF have reached the end of their useful lives. The project will include the replacement or repair of the flat roofs on these buildings, as well as the corresponding flashings, scuppers, parapet wall caps, and masonry. An opinion of probable cost of \$450,000 was developed during an evaluation conducted in the spring of 2015, and will be updated when design is complete.

Filing February 9 – WPC Operations & Maintenance Building HVAC Upgrade (6150014). Project to replace the existing heating, cooling, and ventilation systems for the WPC Operations and Maintenance Building. The project is intended to demolish aging, obsolete existing equipment and replace it with modern higher efficiency equipment. The project will also increase the number of “zones” served by the system, thereby allowing occupants to fine tune the system. Engineer’s opinion of probable cost is \$900,000.

Filing February 9 – Water Division Electric Metering Upgrade (6150043). Project to install additional electric meters at Water Division facilities and to integrate all the meters into the water plant control system. The project will add meters at the Booster Stations throughout the City as well as in the well fields. The metering data will be integrated into the water plant control systems so that operators can use the data to optimize the electrical energy usage. Engineer’s opinion of probable cost is \$700,000.

Filing February 23 – Horizontal Collector Well 5 Pump House (625863). Project will expand existing water supply well capacity by adding a new horizontal collector well. Caisson and lateral construction is currently under way under a separate construction contract. The new collector well will include a pump and electrical gear house built to an elevation above the level of the 2008 flood. Engineer’s opinion of probable cost is \$2,650,000.

Filing February 23 – NWTP Roof Replacements (625904). Flat roofs on the original portions of the NWTP have reached the end of their expected lives. The project will entail the replacement or repair of the flat roofs and corresponding flashings, scuppers, parapet wall caps, masonry, and roof drainage elements on Building 20, Building 30, and the Generator Building at the NWTP. An opinion of probable cost of

\$750,000 was developed during an evaluation conducted in the spring of 2015, and will be updated when design is complete.

Filing April 12 – WPCF Odor Control Upgrades (615233). The existing odor control elements at the WPCF are overloaded and require improvements or repairs. The project will include media replacement and repair of the existing bioscrubber units. Two new biotowers will be installed to increase the capacity of the odor control equipment. New duct work will be installed to remove a greater amount of odorous air from the sludge storage tank to improve hydrogen sulfide safety. Additional repairs will be made to other components of the odor control system in other areas of the plant. The Engineers opinion of probable cost is \$6,000,000 at 60% design.

Water Main Projects

All significant current water main work currently being planned is in conjunction with Paving for Progress projects.

Upcoming Public Hearings

February 9 – Southbound Turning Lane IA-13 and Bertram Road (6150015)

February 23 – Seminole River Bank Armoring (6250045).

February 23 – WPCF Roof Replacements (615190).

February 23 – WPC Operations & Maintenance Building HVAC Upgrade (6150014).

February 23 – Water Division Electric Metering Upgrade (6150043).

March 8 – NWTP Roof Replacements (625904).

March 8 – Horizontal Collector Well 5 Pump House (625863).

April 26 – WPCF Odor Control Upgrades (615233).



Infrastructure Committee Meeting Agenda Item Cover Sheet

Submitting Department: Public Works Department

Presenter at meeting: Jon Durst
E-mail Address: J.Durst@cedar-rapids.org

Phone Number/Extension: 5856

Alternate Contact Person: Jen Winter
E-mail Address: J.Winter@cedar-rapids.org

Phone Number/Extension: 5803

Description of Agenda Item: Request for approval and recommendation to Council of amendment to the following ordinances to create a "topsoil rule": Chapter 71 (Erosion and Sediment Control for Construction Sites) to include a new permit fee schedule for Major and Minor Erosion Control permits; Chapter 72 (Stormwater Management) to include topsoil preservation and restoration requirements for both private and public developments

Background: Chapter 71: Additional SWPPP requirements will ensure erosion control measures are implemented for all construction phases, as well as adequate documentation of erosion control efforts. Minor Erosion Control permit application requirements include additional erosion control plan elements to ensure a site has adequate controls. A permit fee schedule for both Minor and Major Erosion Control permits will support administration of the erosion control and topsoil program; to date, no permit fee has been established. Definition modifications and additions, and statements regarding publically-funded projects, are included to support implementation of the topsoil policy. Chapter 72: The topsoil policy requires that existing topsoil be retained and redistributed on site in a uniform, uncompacted manner, and implementation of a Soil Quality Plan (soil management method(s) selected from Section 2E-6 Part F of the Iowa Stormwater Management Manual) on private and public development sites requiring a Major or Minor Erosion Control permit. This will preserve benefits of healthy soil that removal of topsoil and construction activity diminishes or eliminates, by infiltrating stormwater and decreasing runoff, resulting in decreased flooding and erosion, water quality protection, and homeowner benefits.

Action / Recommendation: Approve and Recommend to Council.

Alternative Recommendation: Modify based on Committee feedback and place on next month's agenda.

Time Sensitivity: Normal

Estimated Presentation Time: 5 minutes

Budget Information (if applicable): NA

Explanation (if necessary): NA

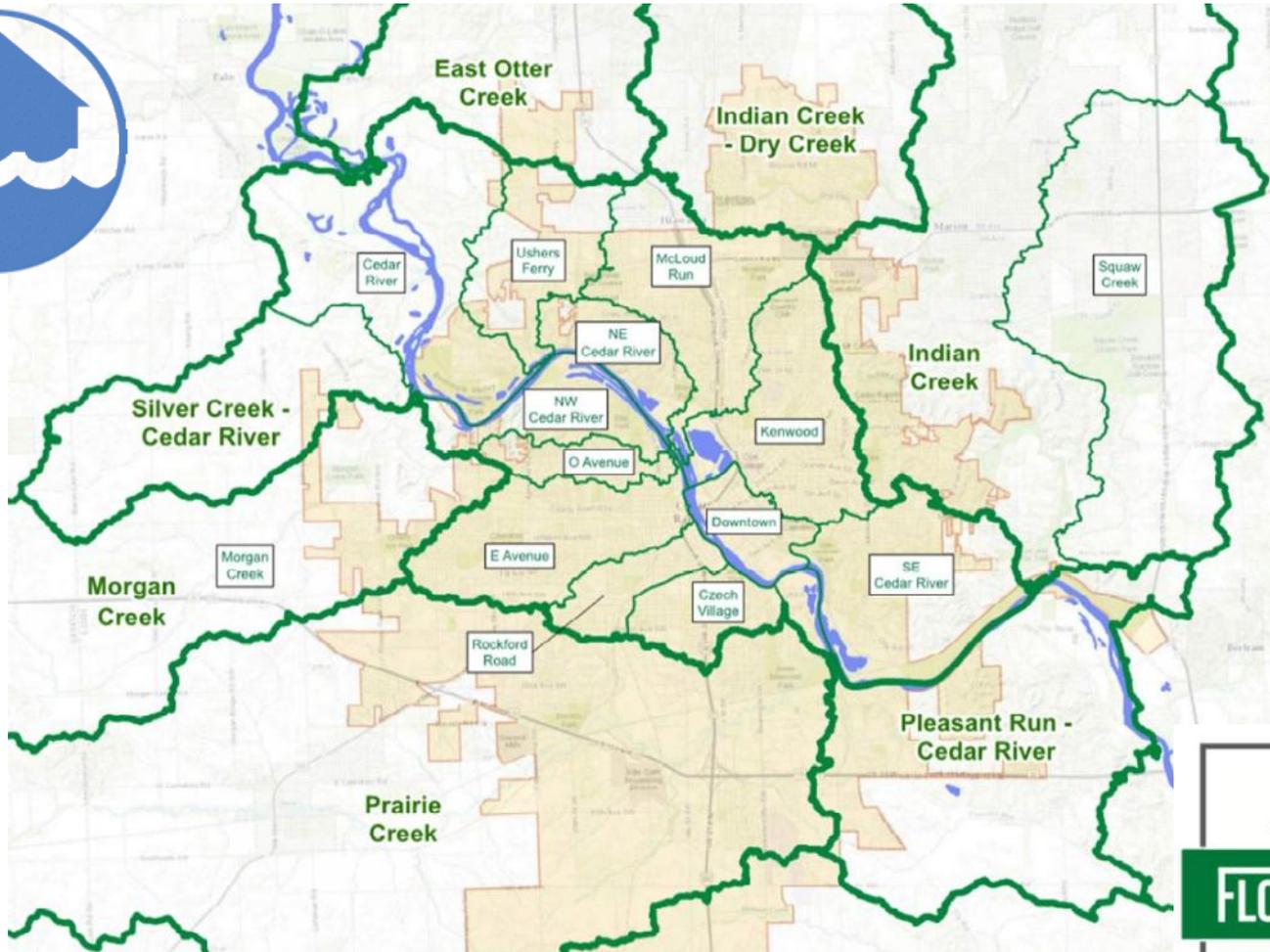
City of Cedar Rapids Proposed Soil Quality Policy

1/27/2015

“Cedar Rapids is a vibrant urban hometown – a beacon for people and businesses **invested in building a greater community now and for the next generation.**”

Stormwater Master Plan

Programs and Policies



Background

- Flooding 2008, 2013, 2014
 - Master plan initiative; holistic management
- State 4” Topsoil Rule Modified, 2015
 - Topsoil not required
- City topsoil policy drafted in Summer, 2015
 - First presented September 2015
 - Requires soil quality restoration

State General Permit No. 2

- Known in the business as a GP2
- >1 acre of land disturbance.
- 2015 state rule
 - “The permittee(s) shall minimize soil compaction and, unless infeasible, preserve topsoil.
 - “Infeasible” shall mean technologically possible, or not economically practicable and achievable in light of best industry practices.”

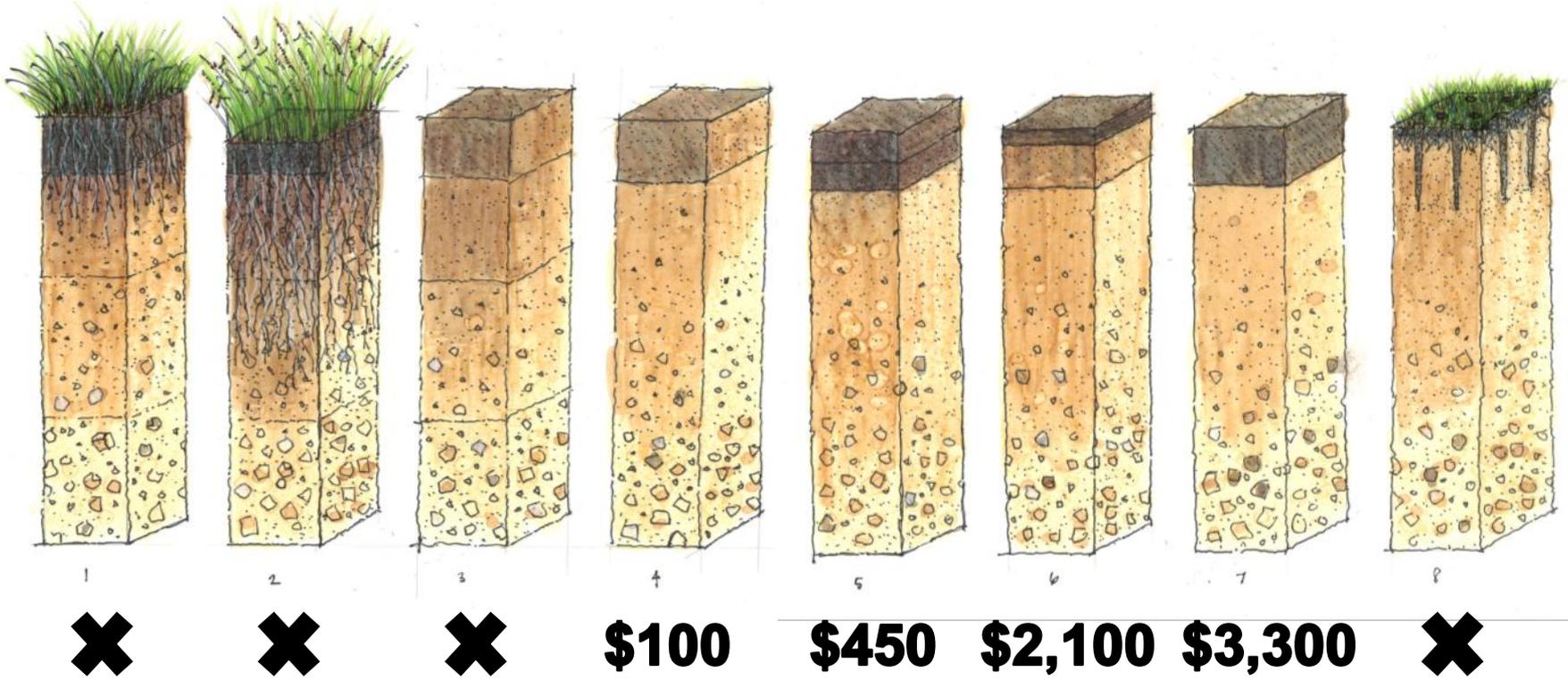
City Policy

- Purpose of Policy
 - Retain or Restore Soil QUALITY
- Results of Policy
 - Reduced Runoff (flooding and erosion)
 - Enhance Water Quality
 - Vital Urban Landscapes
 - Coordinate Standards

Mechanics

- Phase 1:
 - Retain and Redistribute
- Phase 2:
 - Select a Soil Quality Plan
 - 1 of 8 soil management methods
 - Iowa Stormwater Management Manual
 - Section 2E-6 Part F

Methods



Benefits

- Aligns with City’s Vision and EnvisionCR Goals
- Provide Flexibility to Developers/Builders
- Provide Economical Options
- Reduced Flooding & Erosion
- Increased Water Quality
- Effective Policy as for Stormwater Master Plan
- Harmonize Corridor Development Standards
- Ties to ISMM

Request Recommendation

Ordinance Changes & Permit Fee Schedule

- Chapter 71
 - Definitions, Permit requirements
- Chapter 72
 - Add specific language for topsoil
- Permit Fee Schedule
 - Already authorized within ordinance
 - Fee schedule needs Council resolution

Support

- **Metro Area and Corridor**
 - Coralville, North Liberty, Marion, Clive
 - “You could have four inches of topsoil, but if it’s as hard as concrete, the water is still going to run off the site.” Doug Ollendike Clive, IA Community Development Director
- **Linn County Soil and Water Conservation District**
 - “Your new topsoil policy will send a clear message that Cedar Rapids is serious...” District Commissioners
- **Cedar Rapids Stormwater Commission**
- **Iowa Stormwater Education Program**
- **Cedar Rapids Gazette**
 - “It will be a key test for the council, showing whether a city that’s “open for business” can also be open and forward-thinking when it comes to preserving and protecting our natural resources.” Staff Editorial 1/24/16
- **Multitudes of Cedar Rapids residents**
 - “I can’t believe all the emails and people stopping me and saying, ‘Scott, I haven’t been able to grow grass for years and it’s cost me a small fortune. This is the best thing that could ever happen.’ It’s amazing how many positive responses there have been.” Councilmember Olson