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**MINUTES OF THE WORK SESSION  
BOARD OF MAYOR AND ALDERMEN  
FRANKLIN, TENNESSEE  
CITY HALL BOARDROOM  
TUESDAY, JULY 11, 2017 – 4:30 P.M.**

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**Board Members**

Mayor Ken Moore	P		
Vice Mayor Pearl Bransford	P	Alderman Dana McLendon	P
Alderman Clyde Barnhill	P	Alderman Margaret Martin	P
Alderman Brandy Blanton	P	Alderman Ann Petersen	P
Alderman Beverly Burger	P	Alderman Michael Skinner	P

**Department Directors/Staff**

Eric Stuckey, City Administrator	P	Lisa Clayton, Parks Director	P
Vernon Gerth, ACA Community/Economic Dev.	P	Michelle Hatcher, Water Management Director	P
Mark Hilty, ACA Public Works	P	Paul Holzen, Engineering Director	P
Kristine Tallent, ACA/CFO	P	Emily Hunter, Planning & Sustainability Dir.	P
Shauna Billingsley, City Attorney	P	Kevin Townsel, HR Director	P
Deb Faulkner, Police Chief		Joe York, Streets Director	P
Rocky Garzarek, Fire Chief		Jonathan Marston, Assistant Director Engineering	P
Jordan Shaw, IT Director		Kelly Dannenfelser, Principal Planner	P
Chris Bridgewater, BNS Director	P	Lanaii Benne, Assistant City Recorder	P
Becky Caldwell, SES Director		Linda Fulwider, Board Recording Secretary	P

**Call to Order**

Mayor Ken Moore called the Work Session to order at 4:30 p.m.

**Citizen Comments**

① Sister Cities Exchange Students

Vice Mayor Bransford recognized a group of students who participated in the Sister Cities exchange student program in Bad Soden, Germany and Carleton Place, Ontario, Canada, and introduced student chaperone Betsy Taylor. Ms. Harris spoke briefly and noted these students have been true ambassadors for the U.S. She introduced the students and two of the students spoke about their experiences.

② New Department Directors

Eric Stuckey related two assistant directors were recently promoted to department directors:

- Michelle Hatcher to Water Management Director
- Jordan Shaw to IT Director.

**WORK SESSION DISCUSSION ITEMS**

- 1. 17-0577 Consideration of Liquor License Renewal for Berry Farm Wine & Spirits (Satish Patel, Managing Agent), 4000 Hughes Crossing, Suite 160, Franklin, TN 37064-1484**  
**Lanaii Benne, Assistant City Recorder/Records**  
No questions or comments.
- 2. 17-0576 Consideration of Liquor License Renewal for Franklin Wine and Spirits (James D. Clark, Managing Agent), 1400 Liberty Pike, Suite 300, Franklin, TN 37064**  
**Lanaii Benne, Assistant City Recorder/Records**  
No questions or comments.

3. **17-0607 Update on Downtown Parking Capacity and Management Study (COF Contract No. 2016-0230)**

**Paul Holzen, Engineering Director**

Brad Thompson, Volkert, presented the following:

**EXISTING PARKING SUPPLY & COMMITTED PARKING SUPPLY:**

Parking Classification	Parking Spaces		
	Supply	Demand (Peak Hr)	Need
Existing*	1378	1166	-212
Existing + Committed**	1824	1878	54

\*This includes the two parking garages, on-street parking, and the 4<sup>th</sup> Avenue Church of Christ Lot

\*\*The committed projects include Harpeth Square, 231, 249, and Renasant Bank

Supply and demand: Surplus parking on a typical weekday, but not necessarily in places where people want to be.

**SHARED PARKING PURPOSE & ANALYSIS:**

- Peak Hours and Demands for Parking vary according to the Land Use
- Land Uses with varying peak demands that are located within close proximity can share parking areas
- Reductions were taken for the time of day and month; however, reductions were not taken for different modes of travel (pedestrians, bicycles, transit)

**FUTURE LAND USE: (not a market demand study)**

- Developed a Planning-level Future Development Scenario
- Multilayered Data Projections:
  - GIS data provided Current Parcel Size, Building Square Footage and Land Use
  - Envision Franklin provided guidance for future form and land-use mix
- Future Development Scenario attempts a realistic look at the downtown core of the Study Area
- Land Use Mix and Development Scenario vetted and refined with guidance from Planning Staff
  - Reviewed and revised on a block-by-block basis for the downtown core
  - Incorporated approved developments (committed) but not yet constructed/occupied

○ Alderman McLendon joined the meeting at 4:49 p.m.

**FUTURE PARKING SCENARIO**

- Projected Building Square Feet were applied to parking standards to produce a **shared** Future Parking Scenario
- Shared Use Parking Analysis conducted on Shared Parking Districts
- Shared Parking Districts = Geographic Analysis Zones

**Important!**

- Shared Uses – included in Future parking analysis (Retail, Institutional, Office, Restaurant and Finance)
- Discrete Uses – not included in the Future parking analysis (Residential & Hotel)

**FUTURE DEVELOPMENT SCENARIO:**

Existing vs. Future Square Footage of Shared Parking Land Uses

**LAND USE SHIFTS PER AREA**

North	Northwest	West	Central	East	South
Increase in office	Increase in office & retail	Increase in retail & office	Increase in office	Increase in retail	Increase in office

**FUTURE SHARED PARKING DEMAND PER SHARED PARKING DISTRICT:**

Shared Parking District	Shared Parking Demand*
North	250
Northwest	450
West	700
Central	1500
East	1600
South	450

\*This demand is based on the future development scenario and are approximate so they will need to be reevaluated as development is proposed

EXISTING PARKING SUPPLY WITH PRIVATE LOTS PER SHARED PARKING DISTRICT:

Shared Parking District	Existing Parking Supply
North	449
Northwest	72
West	336
Central	937
East	861
South	342

EXISTING + COMMITTED PARKING SUPPLY PER SHARED PARKING DISTRICT:

Shared Parking District	E + C Parking Supply
North	449
Northwest	120
West	352
Central	937
East	1,241
South	342

PARKING NEEDS PER SHARED PARKING DISTRICT:

Shared Parking District	Parking Needs
North	0
Northwest	250-450
West	250-450
Central	450-650
East	250-450
South	50-250

WALKABLE AREAS VS. SHARED PARKING DISTRICTS: The Second Avenue and Fourth Avenue garages are in an area where people are willing to walk to destinations.

SCHEDULE:

- September 2017 – BOMA review of recommendations
- October 2017 – Final Parking Study presented to BOMA

Requests to explore: If any private parking lots would allow public parking after hours, as well as pay to park lots. Information will be included in the September report.

#### 4. 17-0609 Discussion Regarding Thermal Hydrolysis Alternatives Analysis

**Mark Hilty, ACA Public Works**

**Michelle Hatcher, Water Management Director**

Thermal Hydrolysis Alternatives Analysis presentation:

HISTORY/BACKGROUND:

- Resolution 2015-04 approved Letter of Intent with Cambi on February 24, 2015 after a competitive preselection process
- Lystek proposed at October 2016 public meeting by Chestnut Bend HOA. BOMA requested staff evaluate and determine if comparable to Cambi THP process.
- October 2016 began development of equally rigorous bid package to Lystek.

PRELIMINARY NON-ECONOMIC COMPARISON:

Maintained the integrity of the bid process to get to apples to apples comparison. Comparison shows Cambi has the level of experience with more installations than Lystek. The ability to provide support, and annual revenues reveals Cambi has four times more experience. TDEC and the EPA weighed in on the ability to produce Class A solids. Through a different method, Lystek could produce Class A, but would have to change to a lime stabilization process to raise pH to 12 to kill the pathogens (part of EPA regulations). Regulators are not giving a definitive answer on what to do to achieve that key component. A physical churning process would have to be done, and the time spent to do that would have to be factored in. Diversity of disposal; Cambi produces a better Class A eq. CDM would need an amendment for the significant redesign. Bigger tanks, pumps, etc. would be required, and the permitting process would begin again.

<p><u>Current Schedule:</u></p> <ul style="list-style-type: none"> <li>▪ BOMA approval of additional \$20M funding- July 2017</li> <li>▪ TLDA approval of all COF loans – August 2017</li> <li>▪ Bidding &amp; Award (4 months) – December 2017</li> <li>▪ <b>Completion of Construction (3 years) – January 2021</b></li> </ul>	<p><u>Proposed Schedule:</u></p> <ul style="list-style-type: none"> <li>▪ BOMA decision to continue Lystek evaluation – July 2017</li> <li>▪ Complete Lystek evaluation (3.5 months) – November 2017</li> <li>▪ Staff &amp; BOMA approval of Lystek &amp; redesign amendment for CDM Smith (1 month) – December 2017</li> <li>▪ Redesign of biosolids process to include Lystek process (10-12 months) – November 2018</li> <li>▪ Permitting process (3 months) – February 2019</li> <li>▪ SRF process (9 months) – November 2019</li> <li>▪ Bidding &amp; Award (4 months) – March 2020</li> <li>▪ <b>Completion of Construction (3 Years) – March 2023</b></li> </ul>
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**COSTS:**

- SRF funding totaling \$80M has already been approved, with an additional \$20M to be approved.
- Increase in construction cost with time.
- SRF funding – 1.47% (totaling approximately \$33M savings vs. private bonds)
- Additional consulting costs:
  1. Completion of the evaluation & selection process: \$ 100,000
  2. Permitting \$ 50,000
  3. Design (approximately 325 drawings to redesign/revise) \$1,100,000
  4. TDEC acceptance process \$ 50,000
  5. SRF process assistance \$ 200,000
  - TOTAL \$1,500,000**

The longer delay increases construction costs; whereas, the reduced interest rate of 1.47% saves an additional \$5 million. The SRF number is conservative. It is not easy to get the full evaluation cost of both. Lystek was asked for capital costs and they declined to provide them. Mr. Hilty commented that there is more information in the CDM memo provided in the packet. Mr. Stuckey noted they are both good technologies, but staff believes there isn't sufficient upside to spend time and money to fully vet this out. He added that is not a criticism of the other opinion. There is not enough to justify the significant cost and over two-year delay. Also, with Cambi the City would avoid the additional chemicals and would have lower volume storage.

**Discussion:**

- Alderman Martin: Prefers to go ahead with Cambi as was previously approved by BOMA. They will provide the Class A wanted by the City. As stewards of taxpayer money, we don't need to spend more. Cambi was thoroughly vetted.
- Vice Mayor Bransford: Move forward on the path chosen. Two or three years would mean more money spent. Why wasn't Lystek forthcoming with information.
- Alderman Barnhill: Two years plus at a \$1.5 million. No.
- Alderman Skinner: Stay with the original path. We had a process and went through evaluation. Too many unknowns.
- Alderman McLendon: Was assured the City would not go with the greenhouses. Asked if the permit issued was tied to Cambi or would it meet the requirements with both entities. If Lystek were chosen what would be the on-site storage. Another \$1.5 million spent might or might not provide an answer. Not convinced one is more right than the other. Was comfortable with the decision made previously. Which one is more adaptable over the life of the plant to rise to the next more stringent regulations. Would need to have complete plans of both entities to compare.
- Michelle Hatcher: Reporting and standards are not tied to Cambi.
- Mark Hilty: Bladder system, underground, tank to store several million gallons. The Cambi unit would be built for expansion. Lystek similar, but the additional chemical would cause

limitations. They can dewater to about 30%, but still have the chemical. Both processes work well, but the Lystek process doesn't jump out as being better than Cambi. CDM is evaluating systems in other parts of the country as well.

- Eric Stuckey: Lystek has to use alkaline approach to get to Class A, and to use chemicals is messier. There are questions about skipping digestion. He doesn't see the City eliminating the digestion.
- Alderman Burger: With Cambi less chemicals, better disposal and lower pH. Anaerobic digestion gets a higher class, less volume and less storage with better disposal and use options.
- Mr. Hilty: Life of the system equipment replacement is in the 20-25-year range.
- Alderman Blanton: Cambi was chosen as the best out of a field of other candidates. The Lystek option was brought to us. It seems to not meet the product standards that the City wants. Cambi produces what we all want.
- Mayor Moore: Has been involved with the process starting with the original committee. Nothing was hastily evaluated. He feels comfortable that our consultants and staff fully vetted Cambi. We did not chose the wrong system.

Citizen Comments:

- Mike Vaughn, 700 Harrow Lane, Chestnut Bend Subdivision, Franklin: Former Chestnut Bend HOA president. As HOA president he researched what the City was planning and found what he thinks is a better solution. He referred to a Request for Information form Lystek said was sent to City, but that the City didn't complete the form. Mr. Vaughn is of the opinion the City didn't give Lystek the opportunity for a baseline proposal because the form wasn't completed and returned. Thus, information was not provided. He believes Lystek is superior. He wants the City to complete the questionnaire.

**5. 16-0835 Continued Discussion of Proposed Draft Ordinance 2016-42, An Ordinance to Amend Title 17 – Refuse and Trash Disposal of the Franklin Municipal Code for The Purpose of Clarifying Service Container Ownership, Clarifying Type of Service for Consistent Billing and Other General Housekeeping.”**

**Mark Hilty, ACA Public Works  
Becky Caldwell, SES Director**

Continuing to work through the draft language with the Law Department and SES.

Presentation:

IDENTIFY CUSTOMERS BASED ON SERVICE AND CONTAINER:

Current -

- Follows Water Management customer categories
- Creates inconsistent billing for collection services

Recommended Change –

- Define each customer based on services and container
  - Residential roll out service
  - Residential dumpster service
  - Non-residential roll out service
  - Non-residential dumpster service

ROLL OUT CONTAINER OWNERSHIP:

Current –

- Roll out container purchased by developer/builder/contractor
- City maintains ownership of roll out container

Recommended Change –

- Administrative set-up fee collected, instead of “purchase”

BACK DOOR SERVICES:

Current –

- Not included

Recommended Change –

- Require annual application for back door service
- Based on need of the homeowner/occupant

UTILITY BILLING GUIDELINES:

Current -

- Not included

Recommended Change –

- Add the process we currently follow for billing and receipt of payments
- Include timeframe for billing, receipting and penalties

Ordinance will be brought forward.

6.      17-0569      **★Consideration of an Interlocal Agreement with Williamson County Government to Redistribute the Half of the One-Half Percent Sales Tax Increase That is Not Allocated for Schools. (COF Contract No. 2017-0145).**
- Eric Stuckey, City Administrator**
- More information provided: If adopted by a majority of voters, the local option sales tax rate for Williamson County would increase from 2.25% to 2.75%, the maximum allowed by State law. Staff estimates that an additional 0.5% local option tax rate would generate revenues of approximately \$7.3 million for the City (second half only) and over a three-year period potentially contribute a total of \$23.1 million towards payment of debt service for Williamson County Schools.
7.      17-0554      **Consideration of Resolution 2016-90, To Be Entitled: “A Resolution Adopting a Plan of Services for the Annexation of 4360 Long Lane, by the City of Franklin, Tennessee.” Establishing a Public Hearing Date of August 8, 2017.**
- Emily Hunter, Planning & Sustainability Director**  
**Amy Diaz-Barriga, Planning Supervisor**  
**Brad Baumgartner, Senior Planner**
8.      17-0556      **★Consideration of Resolution 2017-48/Ordinance 2017-32, To Be Entitled: A Resolution and Ordinance to Annex Part of 4360 Long Lane, Parcel 180.01, Consisting of 15.3 Acres, Located South of Carothers Parkway and North of Long Lane.” Establishing a Public Hearing of August 8, 2017.**
- Emily Hunter, Planning & Sustainability Director**  
**Amy Diaz-Barriga, Planning Supervisor**  
**Brad Baumgartner, Senior Planner**
9.      17-0552      **★Consideration of Ordinance 2017-27, To Be Entitled, “An Ordinance to Rezone 2.29 Acres From Detached Residential 2 (R-2) To Specific Development District – SD-R 1.71 District and Zone 15.3 Acres Specific Development – District 1.71, Conventional Development Standard Overlay, Goose Creek Character Area (GCCO-6) Overlay, for the Properties Located East of Carothers Parkway and North of Long Lane, 4360 Long Lane, Moss Property PUD Subdivision.” Establishing a Public Hearing on August 8, 2017.**
- Emily Hunter, Planning & Sustainability Director**  
**Amy Diaz-Barriga, Planning Supervisor**  
**Brad Baumgartner, Senior Planner**
10.     17-0553      **Consideration of Resolution 2017-39, To Be Entitled: “A Resolution Approving a Development Plan for the Moss Property PUD Subdivision, for the Property Located East of Carothers Parkway and North of Long Lane at 4360 Long Lane.” Establishing a Public Hearing Date of August 8, 2017.**



**Emily Hunter, Planning & Sustainability Director**  
**Amy Diaz-Barriga, Planning Supervisor**  
**Brad Baumgartner, Senior Planner**

Development Plan. For 30 single family homes adjacent to Ladd Park. Envision Franklin supports single family homes.

11.      **17-0550      Consideration of Ordinance 2017-24, To Be Entitled: “An Ordinance to Rezone .43 Acres From Residential – 3 (R-3) District To Office Residential (OR) District for the Property Located at the Southeast Corner of Columbia Avenue and Carolyn Avenue, 1475 Columbia Avenue.”**

**Franklin Municipal Planning Commission**  
**Emily Hunter, Planning & Sustainability Director**  
**Amy Diaz-Barriga, Planning Supervisor**  
**Josh King, Senior Planner**

This is an existing house. Envision Franklin recommends combined office/residential. FMPC and staff recommend approval.

Discussion:

- Alderman Martin: The house is next to this is residential. She doesn't like the idea of just one house being zoned Office Residential.
- Alderman Blanton: Buildings, regardless of use, should maintain a single-family residential character. Engineering requested the connection point closest to Columbia Avenue be closed to improve Level of Service and safety at the intersection. Parking must be screened. Envision Franklin allows Office/Residential. This is the third rezoning request in the last three months. Need to get ahead of this and see how it affects neighborhoods.
- Don Hazelwood, 106 Carolyn Avenue, Franklin: His 94-year-old mother lives in the house next door. He wants a screen between the two properties. He doesn't want a dumpster and porta-john within 10 feet of his property. There is an Air B&B on one side and now another commercial site. Carolyn Avenue is only one block and all the residents are older citizens.
- Alderman Petersen: Voted against this at the FMPC meeting. This is a residential subdivision. Envision Franklin showed the potential for office/residential down Columbia Avenue. The next house is very close with the dumpster and other things.
- Paul Bass, one of the owners of the tract: The end use is an office for a professional engineer with 1-2 employees. He would be glad to put a landscape buffer between the business and the home. The house/office building has four offices.

12.      **17-0523      Consideration of Ordinance 2017-23, To Be Entitled: “An Ordinance to Amend Chapters 2 and 3 and 8 of the Zoning Ordinance of the City of Franklin, Tennessee, to Allow Limited Development in the Floodway Fringe Overlay District (FFO) Within Certain Central Franklin Character Area Overlay Districts (CFCO-1 and CFCO-2).”**

**Emily Hunter, Planning & Sustainability Director**  
**Kelly Dannenfelser, Principal Planner**

The amendment provides additional development flexibility along the edges of the FFO within certain development limits, while preserving the natural floodplain contours and native vegetation that define an onsite edge of the downtown core and maintain a natural setting along the River (First Avenue, East Main Street, Bridge Street Area along the Harpeth River).

Alderman Petersen had questions and concerns she voiced to Kelly Dannenfelser and requested this item be placed on the August 8 Work Session agenda.

13. 17-0436 ★Consideration of Bids Received for Municipal Solid Waste Transport Services and, Optionally, Municipal Solid Waste Transfer Station Operation Services, for the City's Municipal Solid Waste Stream that is Processed at the City's Solid Waste Transfer Station, for the Sanitation and Environmental Services Department (Purchasing Office Procurement Solicitation No. 2017-008)

Mark Hilty, ACA Public Works  
Becky Caldwell, SES Director

There was just one bidder. Mr. Hilty asked that this item be delayed until October 10, 2017.

14. 17-0437 ★Consider Recommendation to Reject All Bids for Municipal Solid Waste Sanitary Landfill Disposal Services, for the Sanitation and Environmental Services Department (Purchasing Office Procurement Solicitation No. 2017-009)

Mark Hilty, ACA Public Works  
Becky Caldwell, SES Director

Multiple bidders on this item. Two of the three bidders took multiple exceptions. Defer award for hauling to October 10, 2017, but reject these bids and consider bidding again later. The City has several years remaining on the contract with Bi-County.

15. 17-0611 ★Consideration of Resolution 2017-52, a Resolution Authorizing and Providing for the Financing of the Construction of a Wastewater Facilities Project, Including Authorizing the Execution of Application, Contractual Agreements, and Other Necessary Documents, and Making Certain Representations, Certifications, and Pledges of Certain Revenue in Connection with Such Financing for the Water Reclamation Facility Upgrades and Expansion Project with the State Revolving Fund (COF Contract 2017-0174)

Additional \$20 million for State Revolving Fund, which takes the amount up to \$100 million and lowers the interest rate to 1.47%.

16. 17-0608 ★Consideration of a Professional Services Agreement (COF Contract No. 2017-0171) with Volkert, Inc. for the Final Design of the Franklin ITS Extension Project (TDOT PIN 116144.00) in an Amount Not-to-Exceed \$71,500.00

Paul Holzen, Engineering Director

No questions or comments.

17. 17-0491 Continued Discussion Regarding Columbia Avenue Improvements Project Design Alternatives and Consideration of RESOLUTION 2017-43 to Select the Corridor Design Concept for the Columbia Avenue Widening & Improvements Project.

Paul Holzen, Engineering Director  
Jonathan Marston, Assistant Engineering Director

Follow-up from the last meeting. The options are a five-lane roadway or a roundabout. Opinions sought from the Board.

Initial Reactions:

- Alderman Blanton: Five-lane or nothing and work at night.
- Alderman Burger: Not enough information to make a decision for 30-years out. Suggested intersection @ Columbia Avenue and Mack Hatcher have a light, and intersection @ Columbia Avenue and Downs Boulevard have a light to address the safety issues. Roundabouts are two lanes with an apron. The option of roundabouts at the beginning and end of the stretch of road doesn't seem feasible for the future.
- Jonathan Marston: Five-lane and Roundabout options have been revised.



- Alderman McLendon: Provide level of service A-F for both options, and compare options with and without Mack Hatcher.
- Paul Holzen: Staff can look at it without Mack Hatcher and provide the information.

**Presentation:**

Two Options –

- Five-Lane Signalized Concept with continuous two-way, left-turn lane
- Roundabout Concept with 4-foot center median – with signal at each end

Anticipated Travel Time and Average Speed, 2041 volumes (Columbia Avenue)

<b>Five-Lane signalized Concept</b>		<b>Roundabout Concept</b>	
Original	4:50 17.5 mph	Original	4:35 18.2 mph
<b>Revised Five-Lane Signalized Concept (with increased access management)</b>		<b>Revised Roundabout Concept (with loosened access management)</b>	
Revised	4:40 18.1 mph	Revised	4:30 18.5 mph

Corridor Delay- 2041 Volumes

<b>Five-Lane signalized Concept</b>		<b>Roundabout Concept</b>	
Original	530 seconds	Original	215 seconds
<b>Revised Five-Lane Signalized Concept</b>		<b>Revised Roundabout Concept</b>	
Revised	375 seconds	Revised	240 seconds

Safety Conflicts

<b>Five-Lane signalized Concept</b>		<b>Roundabout Concept</b>	
Original	583 (377 with access mgmt.)	Original	243
<b>Revised Five-Lane Signalized Concept</b>		<b>Revised Roundabout Concept</b>	
Revised	385	Revised	258

2041 Anticipated Change in Traffic Collisions

<b>Five-Lane signalized Concept</b>		<b>Roundabout Concept</b>	
Original	Between Intersections +41% At Intersections +2%	Original	Between Intersections -25% At Intersections -29%
<b>Revised Five-Lane Signalized Concept</b>		<b>Revised Roundabout Concept</b>	
Revised	Between Intersections +26% At Intersections +1%	Revised	Between Intersections -10% At Intersections -26%

Physical Impact

<b>Five-Lane signalized Concept</b>		<b>Roundabout Concept</b>	
Original	91' wide back of walk to back of walk	Original	83' wide back of walk to back of walk
<b>Revised Five-Lane Signalized Concept</b>		<b>Revised Roundabout Concept</b>	
Revised	--	Revised	--

Data Summary

<b>Original Concepts</b>		<b>Five Lane Signalized Concept</b>	<b>Roundabout Concept</b>
Operational Performance	Thru Traffic Delay	155 sec/veh	145 sec/veh
	Side Street Delay	375 sec/veh	70 sec/veh
	Average Travel Time	4:50	4:35
Safety Performance	Between Intersections	+41% more collisions	-25% fewer collisions
	At Intersections	+2% more collisions	-29% fewer collisions
Physical Impact	Between Intersections	91' total width	83' total width
	At Intersections	Average footprint	Increased footprint

Revised Concepts		Five Lane Signalized Concept (with increased access management)	Roundabout Concept (with loosened access management)
Operational Performance	Thru Traffic Delay	145 sec/veh	130 sec/veh
	Side Street Delay	230 sec/veh	110 sec/veh
	Average Travel Time	4:40	4:35
Safety Performance	Between Intersections	+26% more collisions	-10% fewer collisions
	At Intersections	+1% more collisions	-26% fewer collisions
Physical Impact	Between Intersections	91' total width	83' total width
	At Intersections	Average footprint	Increased footprint

Important to get information to businesses on Columbia Avenue to better understand the project.

Next step: Schedule a Special Work Session, possibly August 1<sup>st</sup> or 15<sup>th</sup>.

### Adjournment

Work Session adjourned @ 7:03 p.m.

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Dr. Ken Moore, Mayor

Minutes prepared by: Linda Fulwider, Board Recording Secretary, City Administrator's Office - updated 10/24/2017 10:58 AM