MAJOR TRANSPORTATION & REGIONAL COOPERATION COMMITTEE

August 4, 2015
RECENT DEVELOPMENTS

• Civil construction continued throughout June, July
  – Trackwork on Main extended south through 6th St., north from 3rd through 4th
    • 7th & Main intersection
    • 3rd & Main intersection
    • 6th & Main intersection
    • 4th & Main intersection
  – Paving, special restoration efforts completed prior to All-Star Game
    • Walnut St. paving
    • Pole installation
    • Sidewalk restoration at 4th & Walnut
  – ASG shutdown July 9-16
  – Certificate of Occupancy for MOF issued
  – OCS testing in OTR continued
**SCHEDULE STATUS**

Construction

- MPD Construction Contract Milestone Dates:

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Original Contract Dates (Bid Docs)</th>
<th>Change Order #1</th>
<th>Change Order #5</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTR Loop &amp; MOF Substantial Completion</td>
<td>June 15, 2014</td>
<td></td>
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</tr>
<tr>
<td>Substantial Completion of OTR Loop</td>
<td>March 1, 2015</td>
<td>June 29, 2015</td>
<td>July 19, 2015</td>
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<tr>
<td>Substantial Completion of All Work</td>
<td>October 1, 2015</td>
<td>March 15, 2016</td>
<td>April 4, 2016</td>
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<tr>
<td>Revenue Service</td>
<td>April 2, 2016</td>
<td>September 15, 2016</td>
<td>September 15, 2016</td>
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</table>
## BUDGET VS. EXPENSES
Through 7/31/15 - DRAFT

<table>
<thead>
<tr>
<th>Budget Category</th>
<th>Base + Allocated Contingency</th>
<th>Expended</th>
<th>Encumbered</th>
<th>Expend. + Encumb.</th>
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</thead>
<tbody>
<tr>
<td>Pre-Development</td>
<td>$1,313,786.00</td>
<td>$1,264,628.13</td>
<td>$49,157.87</td>
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<tr>
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<td>$2,010,143.00</td>
<td>$2,011,186.00</td>
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<td>$2,011,186.00</td>
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<tr>
<td>Construction</td>
<td>$52,511,908.33</td>
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<tr>
<td>MOF</td>
<td>$11,914,668.98</td>
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</tr>
<tr>
<td>Utilities (Project)</td>
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<td>$59,785,371.61</td>
<td>$11,599,611.32</td>
<td>$71,384,982.93</td>
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<td>Utilities (3rd Party)</td>
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<td>$5,666,858.14</td>
</tr>
<tr>
<td>Vehicles</td>
<td>$25,213,095.40</td>
<td>$7,690,343.10</td>
<td>$16,261,577.41</td>
<td>$23,951,920.50</td>
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<tr>
<td>Fare Vending</td>
<td>$550,000.00</td>
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<tr>
<td>City Project Administration</td>
<td>$4,441,476.27</td>
<td>$3,023,508.00</td>
<td>-$</td>
<td>$3,023,508.00</td>
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<tr>
<td>SORTA Project Administration</td>
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<td>$1,022,484.78</td>
<td>977,515.22</td>
<td>2,000,000.00</td>
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<tr>
<td>Start-up</td>
<td>$250,000.00</td>
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<tr>
<td>Unallocated Contingency</td>
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<td>$2,972,805.61</td>
<td>$1,411,123.81</td>
<td>$4,383,929.42</td>
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<tr>
<td>Subtotal</td>
<td>$133,078,277.97</td>
<td>$94,657,866.47</td>
<td>$33,410,921.24</td>
<td>$128,068,787.70</td>
</tr>
<tr>
<td>Utilities (Duke Escrow)</td>
<td>$15,000,000.00</td>
<td>$15,000,000.00</td>
<td>-$</td>
<td>$15,000,000.00</td>
</tr>
<tr>
<td>Grand Total</td>
<td>$148,078,277.97</td>
<td>$109,657,866.47</td>
<td>$33,410,921.24</td>
<td>$143,068,787.70</td>
</tr>
</tbody>
</table>

*Construction* Expenditures include $2.95 Million in unreleased retainage on MPD contract. *Vehicle* Expenditures include $294,395 in unreleased retainage on CAF contract.
RISK/CONTINGENCY ITEMS

• Unforeseen conditions
  – Pole foundations
  – Underground utility and structures conflicts

• Additional staff time, engineering support
  – Result of extension of delivery dates due to Stop Work Order
    • LTK extension finalized
  – Additional engineering support could be necessary if unforeseen vehicle or testing issues arise

• Capital Equipment, Integration items
  – Spare Switch Points, TVM’s, WTM, misc. utility connections

• Unforeseen start-up, testing needs
  – Misc. tools, equipment, etc.
## CONTINGENCY USAGE
### Through 7/30/15 - DRAFT

<table>
<thead>
<tr>
<th>Budget Category</th>
<th>Contingency Budget</th>
<th>Completed Contingency Uses</th>
<th>Pending Contingency Uses</th>
<th>Estimated Contingency Uses</th>
<th>Contingency Remaining</th>
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<tbody>
<tr>
<td><strong>ALLOCATED CONTINGENCY</strong></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Pre-Development</td>
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<td>$</td>
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<tr>
<td>Design</td>
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<td>$ 202,370.96</td>
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<tr>
<td>Construction</td>
<td></td>
<td>$ 2,000,000.00</td>
<td>$ 1,359,248.32</td>
<td>$ 190,008.00</td>
<td>$ 450,743.68</td>
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<tr>
<td>MOF</td>
<td>$ 2,000,000.00</td>
<td>$ 1,359,248.32</td>
<td>$ 190,008.00</td>
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<td>$ 450,743.68</td>
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<td>Utilities (3rd Party)</td>
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<td>$ 190,800.63</td>
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<tr>
<td>Start-up</td>
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<td>Unallocated Contingency</td>
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<tr>
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<td>$ 6,170,459.99</td>
<td>$ 1,312,677.35</td>
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<td>$ 987,436.88</td>
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</table>
# GRANT DRAWDOWN SUMMARY

Through 7/31/15

<table>
<thead>
<tr>
<th>SOURCE</th>
<th>GRANT NUMBER</th>
<th>ALI CODE</th>
<th>Description</th>
<th>Authorized</th>
<th>Drawn</th>
<th>Pending</th>
<th>Amount Remaining</th>
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</thead>
<tbody>
<tr>
<td>Urban Circulator</td>
<td>OH-03-0303</td>
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<td>$4,000,000</td>
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<td>$</td>
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<tr>
<td>Rail ROW Grant</td>
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<td><strong>Subtotal</strong></td>
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<td>$268,278</td>
<td>$268,278</td>
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<tr>
<td>TIGER 3</td>
<td>OH 79-0002</td>
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<td><strong>Subtotal</strong></td>
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<td>$15,919,998</td>
<td>$15,711,676</td>
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<td>$208,322</td>
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<tr>
<td><strong>TOTAL</strong></td>
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<td>$45,178,274</td>
<td>$33,698,870</td>
<td>$</td>
<td>$11,479,404</td>
</tr>
</tbody>
</table>

*Drawn + Pending = 74.6% of Federal grant funds*
CONSTRUCTION STATUS
through 6/30/15

- Revenue Track Complete 17,390 of 18,600 ft. (93%)
- OCS Pole Foundations 276 of 317 complete (97%)
- OCS Poles 283 of 328 complete (86%)
- Traffic Signal Foundations 92 of 96 complete (96%)
- Traffic Signal Poles 89 of 95 complete (94%)
- Lane Miles Paved Approx. 10.7 of 13.5 complete
- Station Stop platforms 14 of 18 complete
- Traction Power Substations 4 of 4 delivered
- Special Trackwork 12 of 12 switches installed
CONSTRUCTION STATUS

Track:
• Complete Through Aug 3
• Scheduled Aug-Sep 2015

OCS:
• Complete Through Aug 3
• Scheduled Aug-Oct 2015

Paving:
• Complete
• Scheduled Sep 2015

Stops:
• Complete
• Scheduled Aug-Sep 2015
CINCINNATI STREETCAR
MAJOR CBD WORK
AUG-OCT 2015

Legend

Track Complete
Track Scheduled
OCS Complete
OCS Scheduled
Paving Complete
Paving Scheduled
Stops Complete
Stops Scheduled

Main St.
• Paving – Sep 2015

Main St.
• 5th & Main – Aug 7-10

Main St.
• 2nd & Main – Oct 12-30

Walnut St.
• 2nd & Walnut paving – Sep 14-23
CERTIFICATE OF OCCUPANCY

Permit No. 2013P02434  Date: 06/10/2015

This is to certify that the building or structure, or portion thereof, herein described conforms substantially to the Cincinnati and Ohio Basic Building Codes, or in the case of use and/or alterations, that the work has been completed in accordance with the provisions of the approved permit.


Owner: CITY OF CINCINNATI  Tenant: STREET CAR MAINTENANCE FACILITY

Location: 1927 RACE ST  Tenant Name/Suite: CITY OF CINCINNATI

Occupancy Type: STREET CAR MAINTENANCE FACILITY

Construction Type of Building: IIB  Zoning District: UM-HIST

Occupancy Load of Building: 60 68 Occupancy Load

Number of Dwelling Units: 0 Dwelling Units

Suppression System Provided: Y  Suppression System Required: Y

Automatic Sprinkler and Standpipe System Demand At the Base of the Riser PER PLANS

<table>
<thead>
<tr>
<th>Floor No.</th>
<th>MEZZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Use Group</td>
<td>S-1</td>
</tr>
<tr>
<td>Live Load</td>
<td>250 250 0 0 0 0 0 0</td>
</tr>
<tr>
<td>Occupant load or Dwelling Units</td>
<td>52 16 0 0 0 0 0 0</td>
</tr>
</tbody>
</table>

Present/Previous Occupancy: FOR SPECIAL SITUATIONS OR CONDITIONS

New Occupancy: Richard Schriewer
Chief Building Official
Week of June 8, 2015
THE RIGHT ANGLE IS THE BEST ANGLE

Always slow down and cross streetcar tracks at a 60°–90° angle. Crossing incorrectly can result in your front tire sliding on the rail or getting stuck in the gap next to the rail, which can cause you to fall from your bicycle.

In order to cross at the right angle, you may need to turn a little away from the track first, and then cross it. Make sure to slow down first, look behind you, and signal if appropriate.

If you are not comfortable riding over the tracks (because there are multiple tracks at an intersection, difficult track angles, or because of traffic) pull over to the curb, dismount, and cross the intersection as a pedestrian.

Streetcar tracks become more slippery when wet. Use caution riding in the rain or in winter weather.
VEHICLES

• Vehicle production continues in Elmira
  – Units #1 and #2 currently undergoing testing activities.
  – Unit #3 recently completed carshell assembly and watertightness testing - undergoing remaining installation assemblies
  – Unit #4 carshell assembly in progress
  – Unit #5 carshells scheduled to ship from Spain end of July

• Project team met with CAF in Elmira, NY July 21-23
  – Reviewed open QA/QC items
  – Resolved window glass distortion issue
  – Reviewed CAF project management organizational concerns
    • New CAF Project Manager
  – Discussed schedule concerns
VEHICLES

• Schedule
  – CAF currently projects vehicle deliveries to Cincinnati to occur later than originally projected
    • Current projection is approximately 8-12 weeks extension for first car
    • City has requested updated schedule details and recovery plan from CAF
    • Awaiting further information from CAF in order to determine firm date for deliveries
    • Due primarily to issues identified during testing and inspection that required modifications and/or retest, some sub-supplier issues

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Contractual Late Date</th>
</tr>
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<tbody>
<tr>
<td>Contractual Delivery of 1st Car</td>
<td>September 17, 2015</td>
</tr>
<tr>
<td>Contractual Delivery of 2nd Car</td>
<td>October 17, 2015</td>
</tr>
<tr>
<td>Contractual Delivery of 3rd Car</td>
<td>November 17, 2015</td>
</tr>
<tr>
<td>Contractual Delivery of 4th Car</td>
<td>November 17, 2015</td>
</tr>
<tr>
<td>Contractual Delivery of 5th Car</td>
<td>December 17, 2015</td>
</tr>
</tbody>
</table>
SCHEDULE STATUS

• City, LTK, SORTA are working with CAF to recover time to extent possible
  – Resequencing of remaining test activities
  – Expediting review and approval of test procedures and test & inspection reports

• City, SORTA working to determine if extended delivery schedule will have any impact on operations or construction

• Project team is working with City Law Department to evaluate contractual remedies and bring them to bear if necessary

• Upcoming testing milestones:
  – Brake dynamometer testing – Began Week of Aug 3
  – Unit #1 dynamic testing in Elmira – Projected to begin Week of Aug 24
  – Climate Room testing (Unit #2) – Projected to begin Week of Aug 24
COMMUNITY INVOLVEMENT
COMMUNITY INVOLVEMENT

• Communications effort will begin to shift to Operations
• Coordination construction with All Star Game Celebrations, Reds schedule, and other riverfront and CBD events
• Presentation to Ohio Society of Professional Engineers
• Media availability for intersection closure updates
• Continuing established involvement strategy:
  – Streetcar Hotline: (513) 352-3333
  – Monthly Construction Stakeholders Meeting
  – Email Weekly updates
  – Media alerts for all closures or other work disrupting pedestrian or vehicular traffic
  – Business, citizens get information about street and lane closures through a variety methods:
  – Personal visit by a member of the team
COMMUNITY INVOLVEMENT

- Attendance at DCI/Police Sector Meetings
- Streetcar website: www.cincinnatistreetcar.com (all media and press releases)
- Media Interviews
- Bi-weekly coordination meetings with police, City Manager and communication personnel
- Briefings at multiple community and business organizations
- Monthly Construction Stakeholders Meeting
- Monthly Riverfront Joint Operations Task Force
- Coordination meetings with All Star Game Committee
- Social media (twitter @Cincy_Streetcar, City of Cincinnati Facebook page https://www.facebook.com/CincinnatiStreetcarOFFICIAL)
MAJOR TRANSPORTATION & REGIONAL COOPERATION COMMITTEE

August 4, 2015
OPERATIONS AND MAINTENANCE UPDATE

August 2015
Key schedule milestones

- Sept. 2016 - Start of passenger service
- July 2016 – Transdev mobilization, phase 2
- April 2016 - Completion of civil construction
- July 2015 - MOF facility to City
- Aug. 3, 2015 - O&M contract notice to proceed
- Aug. 2015 – Transdev mobilization, phase 1
- Aug. 2015 - SORTA MOF occupancy
- Fall 2015 - Vehicle delivery begins
- Aug. 3, 2015 - SORTA MOF occupancy
- Aug. 2015 – Transdev mobilization, phase 1
- Late July 2015 - MOF facility to City
- Aug. 3, 2015 - O&M contract notice to proceed
Safety and security

- Convened kick-off meeting with ODOT (state safety oversight) – July 17, 2015
- Verified 95% of design; 50% of construction
- Resolved vehicle design audit issues; scheduled audit in Aug. 2015
- Conducting weekly Safety and Security Review Committee (SSRC); monthly Fire Life Safety and Security Committee (FLSSC) meetings
Safety and security

- Identified safety concerns in SSRC and FLSSC meetings
  - OCS interface issues
    - Emptying dumpsters
    - Notifying building contractors
  - Messaging for bicycle safety, general safety and safety for people with disabilities
- Operational Threat and Vulnerability Assessment (TVA) under development
- Continued safety outreach
- MOF security fit-up items
Contract 43-14 Streetcar O&M services

- Transdev contract executed July 21, 2015
- Notice to Proceed (NTP) Aug. 3, 2015
- Team started on-site at Metro
- Kick-off process underway
O&M contractor

• Transdev management team:

John Claflin
General Manager

Scott Archibald
Maintenance Manager

Phil Lind
Transportation/Safety & Security Manager
Initial Transdev activities

• Develop start-up schedule
• Joint development of updated Streetcar Rail Activation Plan (SRAP)
  – City of Cincinnati
  – SORTA
  – MPD
  – CAF USA
  – Transportation Resource Associates (TRA)
Initial Transdev activities

• Rail Activation Committee
  – Interface with SORTA and City SOPs
  – Refine integrated test plan
  – Occupy MOF
  – Training (vendor and Transdev-developed)
  – Develop rulebook
  – Develop Streetcar O&M SOPs
  – Safety and security support
Ticket vending machines

19 TVMs at streetcar stations – will sell both streetcar and Metro fare media

- Order placed: June 2015
- Delivery: Oct. 2015
- Installation (tentative): March 2016
Wheel-truing machine

Needed to maintain wheel profile for smooth operation; will be installed at MOF by year-end

- Factory testing          Early July-mid-August
- Modifications to MOF    Late July
- Delivery                Late August
- Testing & commissioning November
Radio communications system and automatic vehicle location, integrated with Metro

- All equipment has been delivered to CAF
- Installation on vehicles is ongoing
- SORTA inspection    July 20, 2015
- Testing & commissioning    After vehicle delivery
Office equipment for MOF

- Telephones, network/computer equipment    July 2015
- Copier                                      July 2015
- Trapeze WLAN equipment                     Aug. 2015
- Furniture delivery                        Aug. 2015
Questions