1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

Northwest quadrant of Logan
Regionally significant E/W corridor
1800 NORTH 6000 WEST INTERSECTION & ROADWAY EXTENSION

Locally significant:
Industrial development
Commercial development
Single family development
Multi-family development

CMPO REGIONAL TRANSPORTATION PLAN
PHASE 1- CAPACITY PROJECT (2015-2024)

<table>
<thead>
<tr>
<th>Phase</th>
<th>Project A</th>
<th>Length (Miles)</th>
<th>Funding/Ownership</th>
<th>Project Name</th>
<th>Description</th>
<th>Lanes</th>
<th>2015 Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-1</td>
<td>1.49 (local)</td>
<td></td>
<td>1200 East (Phase II)</td>
<td>Sidewalk sections (No Logon to Silverdale)</td>
<td>2 lanes, Medall</td>
<td>$8,115,900</td>
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<tr>
<td>1</td>
<td>2-1</td>
<td>0.86 (local)</td>
<td></td>
<td>200 East Phase 1</td>
<td>3200 North to 3700 North (Wobe Park)</td>
<td>2 lanes, Median</td>
<td>$6,493,200</td>
</tr>
<tr>
<td>1</td>
<td>3-1</td>
<td>1.30 (local)</td>
<td></td>
<td>3100 North</td>
<td>300 East to 300 East (No Logon, Wobe Parks)</td>
<td>2 lanes, Medall</td>
<td>$7,298,116</td>
</tr>
<tr>
<td>2</td>
<td>1-1</td>
<td>1.50 (local)</td>
<td></td>
<td>3800 North</td>
<td>300 West to 200 West (Logan)</td>
<td>2 lanes, Medall</td>
<td>$7,798,400</td>
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<tr>
<td>3</td>
<td>1-7</td>
<td>0.22 (local)</td>
<td></td>
<td>2300 South</td>
<td>Bridge to 400 North &amp; Main Millville</td>
<td>2 lanes, Millville</td>
<td>$1,213,276</td>
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<tr>
<td>3</td>
<td>1-8</td>
<td>0.40 (local)</td>
<td></td>
<td>400 Road</td>
<td>Roadlah to 300 South (Nibley/Millville)</td>
<td>2 lanes, Millville</td>
<td>$2,524,420</td>
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<tr>
<td>3</td>
<td>1-9</td>
<td>0.30 (local)</td>
<td></td>
<td>100 West</td>
<td>400 South to 100 East (Bingham)</td>
<td>2 lanes, Millville</td>
<td>$1,964,117</td>
</tr>
<tr>
<td>3</td>
<td>1-10</td>
<td>0.30 (local)</td>
<td></td>
<td>300 East Phase I</td>
<td>300 East to 200 East (Logan)</td>
<td>2 lanes, Medall</td>
<td>$964,000</td>
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<tr>
<td>1-11</td>
<td>0.30 (local)</td>
<td></td>
<td></td>
<td>300 North</td>
<td>300 East to 500 East (Richmond Center)</td>
<td>2 lanes, Medall</td>
<td>$964,000</td>
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<tr>
<td>1-12</td>
<td>NA (local)</td>
<td>1400 North-900 West</td>
<td></td>
<td>Protest Sign</td>
<td>2 Lane, Millville</td>
<td>$2,400,000</td>
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<td>1-13</td>
<td>0.25 (local)</td>
<td></td>
<td></td>
<td>450 North</td>
<td>800 West to 900 West (Logan)</td>
<td>2 lanes, Millville</td>
<td>$1,259,200</td>
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<tr>
<td>1-14</td>
<td>NA (local)</td>
<td>1400 North-900 West</td>
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<td>Roadway Safety Projects</td>
<td>2 Lane, Millville</td>
<td>$2,938,000</td>
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<tr>
<td>1-15</td>
<td>1.49 State</td>
<td>500 West Completion</td>
<td></td>
<td>1400 N. to 2500 N. (Logan)</td>
<td>2 lanes, Medall</td>
<td>$14,229,660</td>
<td></td>
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</tbody>
</table>

PHASE 1 TOTALS: $121,695,344

PHASE 1 TOTALS FOR COUNTY: $56,897,634

PHASE 1 TOTALS FOR STATE: $86,897,700
1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

1800 N 600 W Intersection
50% design plans

1800 N 900-1000 W Roadway Extension
750 l.f. of roadway

<table>
<thead>
<tr>
<th>Existing + Project</th>
<th>2021 Background + Project</th>
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</thead>
<tbody>
<tr>
<td>Present 2-Way stop (E/W)</td>
<td>2021 2-Way stop (E/W)</td>
</tr>
<tr>
<td>LOS C</td>
<td>LOS F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Level of Service</th>
<th>Average Control Delay (sec/veh)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>≤ 10</td>
</tr>
<tr>
<td>B</td>
<td>&gt; 10 - 20</td>
</tr>
<tr>
<td>C</td>
<td>&gt; 20 - 35</td>
</tr>
<tr>
<td>D</td>
<td>&gt; 35 - 55</td>
</tr>
<tr>
<td>E</td>
<td>&gt; 55 - 80</td>
</tr>
<tr>
<td>F</td>
<td>&gt; 80</td>
</tr>
</tbody>
</table>
1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

LOS comparison
(completion of Quayle Meadows, intersection improvements, and roadway extension)

Table 7: 1800 N./600 W. LOS (Background + Project)

<table>
<thead>
<tr>
<th>Year</th>
<th>Step Control</th>
<th>AM Peak Hour</th>
<th>PM Peak Hour</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Average Control Delay (sec/veh)</td>
<td>Level of Service</td>
<td>Average Control Delay (sec/veh)</td>
</tr>
<tr>
<td>2021</td>
<td>Stop (E/W)</td>
<td>61.3</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>Stop (N/S)</td>
<td>105.6</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>A-Way</td>
<td>11.4</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>Signalized</td>
<td>20.0</td>
<td>B</td>
</tr>
<tr>
<td>2030</td>
<td>Stop (E/W)</td>
<td>&gt;150</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>Stop (N/S)</td>
<td>&gt;150</td>
<td>F</td>
</tr>
<tr>
<td></td>
<td>A-Way</td>
<td>12.9</td>
<td>B</td>
</tr>
<tr>
<td></td>
<td>Signalized</td>
<td>20.7</td>
<td>C</td>
</tr>
</tbody>
</table>

1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

80 ft. ROW on 600 W
Traffic Signal
UPRR Crossing
ROW acquisition

Eligible cost
$2,861,603
1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

Intersection Right of Way needs
Impacts 12 properties
Prop #23 exchange for improvements
Remaining ROW will be purchased

Eligible ROW cost: $309,350.00

1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

Phase I Roadway Extension:
Wetland ACOE permit 2014
Phase I completed June 2017
Environmental
Borrow
Irrigation/stormdrain (partial)
Temporary surface

Cost:
$219,590 - Environmental
$282,945 - Construction

Total:
$502,535 (City match)
1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION

Phase 2 - Roadway Extension
Curb & Gutter
Water and Sewer
Completion of roadway

Eligible cost
$902,960

Ineligible cost (utilities, curb, gutter, landscaping, etc.)
$164,390

City match (phase 1)
$502,535

COG need
$236,035

Cost share benefit
20.1% City match

Alternative project phasing
$236,035 Roadway
$256,710 Intersection ROW

$492,745 COG 2017

$2,157,382 COG 2018 (adjusted)
**1800 NORTH 600 WEST INTERSECTION & ROADWAY EXTENSION**

Regionally and locally significant
CMPO RTP Phase 1 Capacity improvement project
Enhances E/W traffic movement
Supports expansion of commercial/industrial development
Enhances access to 1000 W by-pass
  - High density housing
  - Single family housing
Maintains/improves acceptable LOS at intersection

Economic/freight benefit to established businesses
  - UPS
  - Jack’s Tire & Oil
  - Campbell Scientific
  - Apogee
  - Ducworks
  - Central Valley Machine

Cost benefit
  - Owner donated ROW in exchange for improvements
  - City match +20.1%

**QUESTIONS?**