Rebuild Illinois and the IDOT Multi-Year Highway Program

Illinois Association of Aggregate Producers Annual Convention March 5, 2020
Brian Pfeifer, P.E., Bureau Chief of Materials, IDOT
Rebuild Illinois
6-Year Total $44.8 ($ in billions)

- Transportation: $33.2
- Other Agencies: $11.6
REVENUE SOURCES

$590 M  MOTOR FUEL TAX IN FY20*
  *Increases annually based on CPI

$475 M  VEHICLE REGISTRATION FEES

$146 M  TITLE FEES

$600 M  SALES TAX ON MOTOR FUEL*
  *At full implementation, shift of revenue only, not an increase

FUNDING BREAKDOWN

$33.2 B  TOTAL OVER SIX YEARS

- $25.3 B  ROAD & BRIDGES
- $4.6 B   MASS TRANSIT
- $1 B   RAIL
- $679 M  MISC. TRANSPORTATION
- $558 M  AERONAUTICS
- $492 M  CREATE
- $312 M  GRADE CROSSING PROTECTION
- $150 M  PORTS
Transportation
6-Year Total $33.2 ($ in billions)

- Roads/Bridges $25.3
- Other Modes $7.9
Roads/Bridges
6-Year Total $25.3
($ in billions)

Original MYP $10.9
New Rebuild Funds $14.4
State/Local Split
6-Year Total $25.3
($ in billions)

- Local $5.5
- State $19.5
- Operations/Misc. $0.3

*Additional Local MFT from $0.19 increase not included.
Past vs. Future Program

FY 19-24 MYP/FY 19 Annual
- $11.05 Billion
- $2.2 Billion annual

FY 20-25 MYP/FY 20 Annual
- $23.5 Billion
- $3.7 Billion annual (70% increase)
Comparison of FY 19-24 vs. FY 20-25 MYP

<table>
<thead>
<tr>
<th>Core Work Categories</th>
<th>FY 2019-2024</th>
<th>FY 2020-2025</th>
<th>Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roadway Maintenance</td>
<td>1,919 miles</td>
<td>4,063 miles</td>
<td>2,144 miles</td>
</tr>
<tr>
<td>Bridges</td>
<td>8.5 million sq. ft.</td>
<td>8.8 million sq. ft.</td>
<td>300,000 sq. ft.</td>
</tr>
<tr>
<td>Safety/System Modernization</td>
<td>10 miles 171 locations</td>
<td>18 miles 341 locations</td>
<td>8 miles 170 locations</td>
</tr>
<tr>
<td>System Expansion</td>
<td>27 miles (roads) 162,000 sq. ft (new bridges)</td>
<td>131 miles (roads) 388,000 sq. ft. (new bridges)</td>
<td>104 miles (roads) 226,000 sq. ft. (new bridges)</td>
</tr>
<tr>
<td>Preservation</td>
<td>$421 million</td>
<td>$1.7 billion</td>
<td>$1.279 billion</td>
</tr>
<tr>
<td>Total State Program</td>
<td>$7.69 billion</td>
<td>$19.35 billion</td>
<td>$11.66 billion</td>
</tr>
</tbody>
</table>
IDOT Multi-Year Program

Projects listed by District, as FY20 or FY21-25

Interactive map showing MYP projects

http://www.idot.illinois.gov/transportation-system/transportation-management/transportation-improvement-programs-/multi-modal-transportation-improvement-program/index
Asset Management

- **Assets:** pavements and bridges
- **Management:** optimal improvement and timing
- **Principles**
  - Shift from worst-first approach to preservation and long-term strategies
  - Achievable targets established for pavements & bridges
  - Data-driven decisions
Asset Management - Interstate Pavements

- Measure pavement condition (CRS, 1.0 - 9.0)
  - Distress type and severity
- Consider improvement type - three tiers
  - Preservation (5.5 - 7.5)
  - Rehabilitation (4.0 - 5.4)
  - Replacement (< 4.0)
Transportation Asset Management Plan

- MAP-21 requirements
- IDOT started development in 2017
- TAMP approved by FHWA on August 29, 2019
- Currently being updated to account for Rebuild Illinois
Current Pavement Condition using 2019 data

- Interstate - 83% (Goal 90%)
- Other NHS Routes - 78% (Goal 90%)
- Non-NHS Marked Routes - 67% (Goal 75%)
- Non-NHS Unmarked Routes - 69% (Goal 50%)
Current Bridge Condition using 2019 data

- Interstate - 85% (Goal 93%)
- Other NHS Routes - 85% (Goal 90%)
- Non-NHS Marked Routes - 88% (Goal 90%)
- Non-NHS Unmarked Routes - 88% (Goal 90%)
Positive Impacts Moving Forward

- Concentrate more aggressively on system needs
  - TAMP goals/right treatment at the right time

- Provides opportunity to focus on:
  - Larger bridges that need addressed
  - Add lanes/capacity projects can be prioritized and programmed
  - Increase funding for preservation projects
Positive Impacts Moving Forward

- Increased work for industry partners
- More flexibility in leveraging additional funds and be able to match our federal funding
- Overall improved quality of life for traveling public and increased economic development opportunities for the state
Transportation Asset Management Plan

TAMP and additional background information, FAQs:

http://www.idot.illinois.gov/transportation-system/transportation-management/transportation-improvement-programs-/multi-modal-transportation-improvement-program/index
## Tons of Material Reported in MISTIC

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Sand (A&amp;B Quality)</td>
<td>734,598</td>
<td>676,442</td>
<td>749,005</td>
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<tr>
<td>Gravel</td>
<td>48,092</td>
<td>36,310</td>
<td>55,974</td>
</tr>
<tr>
<td>Crushed Gravel (A&amp;B Quality, 021 and 031)</td>
<td>202,889</td>
<td>191,994</td>
<td>202,994</td>
</tr>
</tbody>
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## Tons of Material Reported in MISTIC

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<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stone Sand (A&amp;B Quality)</td>
<td>899,822</td>
<td>559,720</td>
<td>798,050</td>
</tr>
<tr>
<td>Crushed Stone (A&amp;B Quality)</td>
<td>2,083,377</td>
<td>1,860,133</td>
<td>1,907,082</td>
</tr>
<tr>
<td>Material</td>
<td>2017</td>
<td>2018</td>
<td>2019</td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>-------------</td>
</tr>
<tr>
<td>Rip-Rap (All Gradations)</td>
<td>263,330</td>
<td>121,837</td>
<td>89,938</td>
</tr>
<tr>
<td>Granular Subgrade</td>
<td>232,006</td>
<td>360,978</td>
<td>152,922</td>
</tr>
<tr>
<td>Base Material (040-052)</td>
<td>1,518,925</td>
<td>1,034,969</td>
<td>804,837</td>
</tr>
</tbody>
</table>
Material Quantity Estimates, 2020

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Unit</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Pavement</td>
<td>CU YD</td>
<td>249,272</td>
</tr>
<tr>
<td>SMA</td>
<td>TON</td>
<td>889,404</td>
</tr>
<tr>
<td>HMA, E and F surface</td>
<td>TON</td>
<td>204,731</td>
</tr>
<tr>
<td>HMA, all other</td>
<td>TON</td>
<td>3,128,779</td>
</tr>
<tr>
<td>Unbound Aggregate</td>
<td>CU YD</td>
<td>1,080,112</td>
</tr>
<tr>
<td>Structural Concrete</td>
<td>CU YD</td>
<td>108,724</td>
</tr>
</tbody>
</table>

NOTE: Estimates are based on projections from November 2019 through June 2020 lettings. Estimates do not include quantities from previously awarded contracts.
Concrete Pavement & Structural Concrete

- 249,272 cubic yards of Concrete Pavement
  - CA - 224,345 tons
  - FA - 153,302 tons

- 108,724 cubic yards of Structural Concrete
  - CA - 96,220 tons
  - FA - 61,429 tons
Hot-Mix Asphalt Items

- 889,404 tons of SMA
  - CA - 593,232 tons / FA - 78,268 tons

- 204,731 tons of E & F Surface Mixes
  - CA - 98,885 tons / FA - 58,348 tons

- 3,128,779 tons of All Other HMA Mixes
  - CA - 1,407,951 tons / FA - 916,732 tons
Hot-Mix Asphalt Trends

- 4,222,914 tons projected for 2020 from lettings
  - *Does not include carry-over work*
- 2019 total: 4,737,000 tons
- 2018 total: 3,203,000 tons
- 2017 total: 4,686,000 tons
- 2016 total: 4,579,000 tons
Unbound Aggregate Projection

- 1,080,112 cubic yards projected for 2020
  - *Does not include carry-over work*
- Granular Subgrade and Base Material
  - 2019: 554,888 cubic yards
  - 2018: 835,275 cubic yards
  - 2017: 1,005,285 cubic yards
Micro-Surfacing Aggregate

- Estimated miles for 2020 TBD
- 2019 spec (CA/CM 21 & 22)
  - 10,012 tons
- New spec: FA 23/24 (identical)
Thank You!

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